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प्राधिकार से प्रकाशित,
PUBLISHED BY AUTHORITY

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No. 10] NEW DELHI, SATURDAY, MARCH 9, 1985 (PHALGUNA 18, 1906)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 9th March 1985

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APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

31st January, 1985

- 61/Cal/85. The Secretary, Ramakrishna Mission Vidyapath, Purulia. Aligned micro-episcopes.
- 62/Cal/85. Robert Henry Burgess & June Burgess. Auto-flush system. (2nd February, 1984 Canada).
- 63/Cal/85. The Cross Company. A machine tool transfer drive.
- 64/Cal/85. Westinghouse Electric Corporation. Improvements in or relating to static var generator having improved response time.
- 65/Cal/85. Satish Chandra Lakhota. Acupressure sandals.
- 66/Cal/85. Fluor Corporation. Process for producing power.
- 67/Cal/85. Fluor Corporation. Autothermal production of synthesis gas.
- 68/Cal/85. Propane Carburetion Systems, Inc. Fuel feed control system and control valve for dual fuel operation of an internal combustion engine.

1st February, 1985

- 69/Cal/85. Kievsky Politekhnikhesky Institut Imeni 50-Letia Velikoi Oktyabrskoi Sotsialisticheskoi Revolutsii. Electrode wire.
- 70/Cal/85. Nabisco Brand, Inc. Method and composition for soft edible baked products having improved extended shelf-life and an edible firm gel for use therein.
- 71/Cal/85. Eaton Corporation. Clutch control.

2nd February, 1985

- 72/Cal/85. Ratan Lal Jain. An improved picker for loom.
- 73/Cal/85. Adhar Sahijram Mirchandani. A clock or flush valve.
- 74/Cal/85. Madhav Anant Date and Vithal Narasinha Kamat. A static single phase kilo-watt hour meter.
- 75/Cal/85. Kornelis' Kunsthars Producten Industrie B. V. A process for making a closure cap, provided with a gasket and a sealing ring from a polypropylene material for a container; a closure cap provided with a gasket and a sealing ring from an olefin polymer, and a process for closing and sealing a container with a closure cap made from polypropylene material and provided with a sealing ring.
- 76/Cal/85. Coburn Optical Industries, Inc. Method for making ophthalmic lenses.

4th February 1985

- 77/Cal/85. A. H. Robins Company. Nitro amino and aroylamino-N-phenylphridinamines in a process for preparing pyrido [1, 4] benzodiazepines. [Divisional date 10th December, 1982].

5th February, 1985

- 78/Cal/85. American Cyanamid Company. Organic amines containing hydroxyalkyl carbamate groups and method of making the same.
- 79/Cal/85. N. V. Optische Industrie "De Oude Delft". Device for detecting differences in color.

6th February, 1985

- 80/Cal/85. Jean-Jacques Bollmann. Base support for pole.

- 81/Cal/85. Mitsu Toatsu Chemicals, Incorporated. A process for preparing 5-methylthiopyrimidine derivatives. [Divisional date 4th January, 1983].

- 82/Cal/85. Uraca Pumpenfabrik GmbH & Co. KG. Piston or plunger pump.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5

1st January, 1985

- 1/Del/85. Bethlehem Steel Corporation, "Aqueous flux and process using same in coating ferrous article".

2nd January, 1985

- 2/Del/85. Platt Saco Lowell Corporation, "Method and apparatus for opening fiber bales".
- 3/Del/85. Platt Saco Lowell Corporation, "Fiber feeding apparatus with a pivoted air exhaust wall portion".
- 4/Del/85. Platt Saco Lowell Corporation, "Method and apparatus for controlling fiber density".

4th January, 1985

- 5/Del/85. Prem Swaroop Srivastava, "A closed suction pumping arrangement".
- 6/Del/85. The Chief Controller Research and Development, "The preparation of composite modified double-base propellants".

5th January, 1985

- 7/Del/85. UOP Inc., "High selectivity process for dehydrogenation of paraffinic hydrocarbons".

7th January, 1985

- 8/Del/85. Prashant Kumar and Srinivasan Sampath, "Improved chaired bicycle".

8th January, 1985

- 9/Del/85. Council of Scientific and Industrial Research, "Improvement in the process for extraction of copper, nickel and cobalt from deep sea nodules by ammoniacal leaching".
- 10/Del/85. Council of Scientific and Industrial Research, "Improvement in or relating to hexadecimal keyboard".
- 11/Del/85. Bayer. Aktiengesellschaft, "Triphendioxazine vinyl sulphone dyestuffs".
- 12/Del/85. Mini tunnels International Limited, "Tunnelling and tunnel relining equipment".

10th January, 1985

- 13/Del/85. Imperial Chemical Industries PLC., "Coating process". (Convention date January 27, 1984) (U.K.).
- 14/Del/85. Cement Research Institute of India, "A bulk carrier".
- 15/Del/85. Cement Research Institute of India, "A bulk carrier".

11th January, 1985

- 16/Del/85. Jeichienus Adriaan Van Der Werff, "Toroidal Motor pump".
- 17/Del/85. Allied Corporation, "Grommet for connectors". (Convention date February 16, 1984) (U.K.).
- 18/Del/85. Armco Inc., "Insulative coating composition for electrical steels".
- 19/Del/85. Modern Balance Works, "An ultrasonic generator".
- 20/Del/85. Saurabh Natverlal Kinariwala, "A drive means for a loom".
- 21/Del/85. Saurabh Natverlal Kinariwala, "A sley sword".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH NEW DELHI-5

14th January, 1985

- 22/Del/85. Council of Scientific and Industrial Research, method for the preparation of nickel-alumina catalysts".
- 23/Del/85. Bayer Aktiengesellschaft, "Copolymers based on maleic anhydride and α 6 -unsaturated compounds. A process for their preparation and their use as paraffin inhibitors".

15th January, 1985

- 24/Del/85. Northern Telecom Ltd., "Telephone handset for a telephone set". (Convention date February 17, 1984) (Canada).
- 25/Del/85. Bendix Limited, "Multi circuit fluid pressure control valve assemblies". (Convention date January 28, 1984) (U.K.).
- 26/Del/85. Westinghouse Brake and Signal Company Limited, "Gate turn off thyristor". (Convention date January 31st, 1984) (U.K.).
- 27/Del/85. Dorr Oliver Incorporated, "Vacuum filter for the separation of solids from liquids".
- 28/Del/85. Necchi Societa Per Azioni, "Hermetic vertical axis rotary motor compressor".

16th January, 1985

- 29/Del/85. Deutsche Forschungs-Und Versuchs-Anstalt fur Luft-Und Raumfahrt E.V., "Improved process for compacting a porous structural member for hot-isostatic molding".
- 30/Del/85. Societe De Recherches Et De Development Industriel S.A., "Process and apparatus for separating a mixture of fluids".
- 31/Del/85. The Chief Controller Research & Development, "A process for the preparation of oxydianiline".

17th January, 1985

- 32/Del/85. Thumboswamy Joseph David, "Multipurpose, miniature harvester, semi automatic for to be used by farmers, forest Deptt., Garden and Jungles".
- 33/Del/85. Grigory Dmitrievich Sukhover and others, "Aircraft cabin".

18th January, 1985

- 34/Del/85. Barry Peter Liversidge, "Co-axial cable stripping tool and end portion preparation method". (Convention date January 20, 1984 and May 25, 1984) (U.K.).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, AT TODI ESTATES, IIIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-400 013.

9-1-1985

- 9/BOM/1985 Siddharth Jhawar & Anurag Jhewar.
- 10/BOM/1985 do.

A Novel method of lubricating fibre core of rope.

A method of manufacturing free flowing liquid lubricant for pre-lubricating fibre core ropes.

10-1-1985

- 11/BOM/1985 Elektrameric Systems Pvt. Ltd.

Apparatus and circuitry for the precise positioning of machine tool slides using variable speed AC drives.

11-1-1985

- 12/BOM/1985 Bar-Pak
- 13/BOM/1985 Y. U. Mirza
- 14/BOM/1985 M. C. Parikh
- 15/BOM/1985 D. S. Naik
- 16/BOM/1985 Primatex Machinery Private Limited.
- 17/BOM/1985 do.

A container for Dispensing a material.

Multy Electronic Water Pump.

Plastic Butch.

An unique beam dyeing machine with close circuit process.

Improvements in or relating to a Stenter.

A Pin-lock to the pin-bar fixed to the clip of an Artos Stenter or a Stenter of like design.

ALTERATION OF DATE

155781.
136/Del/81). Ante dated to 19th January, 1980.
155782.
(137/Del/81). Ante dated to 19th January, 1980.
155806.
(623/Cal/83). Ante dated to 27th September, 1979.
155807.
(640/Cal/83). Ante dated to 27th September, 1979.

COMPLETE SPECIFICATION ACCEPTED

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Ind. CLASS : 32F₁ + F₃B + 55D₂.

155767

8 Claims

Int. Cl. : C07c 63/50, A01n 9/00.

An improved process for the preparation of 4-chloro- α -(1-methylethyl) Benzeneacetic acid from 4-chloro- α -(1-methylethyl) Benzene acetaldehyde using hypophalites of alkali metals or alkaline earth metals.

Applicant : CAMPHOR AND ALLIED PRODUCTS LIMITED, AN INDIAN COMPANY, HAVING ITS REGISTERED OFFICE AT JEHangIR BUILDING, 133 MAHATMA, GANDHI ROAD, BOMBAY-400 023.

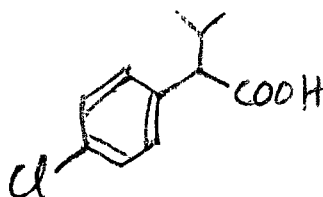
Inventor : 1. DR. PURSHOTAM BHAN (2) DR. HARMANDER PAL SINGH CHAWLA, 3. DR. SUKH DEV.

Application No. 124/Bom/1983 filed on April 8, 1983.

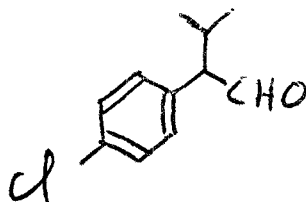
Appropriate office, for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

5 Claims

An improved process for the preparation of 4-Chloro- α -(1-methylethyl) benzeneacetic acid of structural formula I



from 4-chloro - α -(1-methylethyl) benzeneacetaldehyde of structural formula II



which comprises the oxidation of said 4-chloro- α -(1-methylethyl) benzeneacetaldehyde in presence of a solvent such as herein described with alkali metal hypophalite or alkaline earth metal hypophalite such as herein described, dissolved in a solvent such as herein described, under reaction conditions such as herein described.

Complete specification 6 pages.

Drg. 1 sheet.

Ind. CLASS : 32F_{3a} + 55D₂.

155768

Int. Cl. : C07C 27/22, A01n — 9/00.

Title : A PROCESS FOR THE PREPARATION OF OXIRANES FROM CARBONYL COMPOUNDS USING TRI-METHYL SULPHONIUM METHYL SULPHATE AND ALKALI METAL HYDROXIDES.

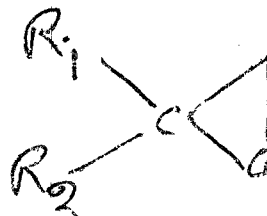
Applicant : CAMPHOR AND ALLIED PRODUCTS LIMITED, AN INDIAN COMPANY, HAVING ITS REGISTERED OFFICE AT JEHangIR BUILDING, 133 MAHATMA GANDHI ROAD, BOMBAY-400 023, MAHARASHTRA, INDIA.

Inventor : 1. DR. PURSHOTAM BHAN (2) DR. CHANDRA SHEKHAR SHARMA, (3) DR. HARMANDER PAL SINGH CHAWLA, (4) DR. SUKH DEV.

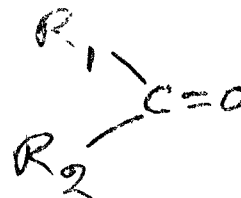
Application No. 125/Bom/1983 filed on April 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

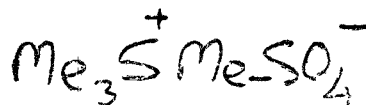
A process for the preparation of oxiranes of general formula 2



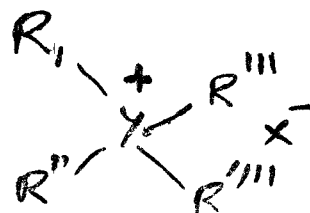
from carbonyl compounds of general formula 1 of



wherein R¹ and R² are identical or different and are hydrogen atom or straight chain or branched chain alkyl group with carbon atoms 1 to 20, aryl or heteroaryl group and can also be part of a carbocyclic or a heterocyclic ring, which comprises reacting the said carbonyl compound of general formula 1 of the accompanying drawings wherein R¹ and R² are as defined above with trimethylsulphonium methylsulphate, or structural formula 19 in the presence of an aqueous alkali



such as sodium hydroxide or potassium hydroxide and in presence of a phase transfer catalyst such as herein described of general formula 20



in a solvent such as herein described.

Complete specification 11 pages.

Drgs. 2 sheets.

CLASS : 205-B.

155769

Int. Cl. : B 29 h 17/02

BELT FOLDING MACHINE.

Applicant : NRM CORPORATION OF 3200 GILCHRIST ROAD, P.O. BOX 6338, AKRON, OHIO 44312, U.S.A.

Inventors : 1 DANIEL SHICHMAN, 2. GEORGE E. ENDERS.

Application No. 133/Cal/80 filed February 4, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

42. Claims

A belt folding machine for folding the circumferential edge portion of a tire component, characterized by a rotatable and expandable belt folding drum comprising : an annular deck having a cylindrical support surface for the component and a precisely formed sharply shouldered peripheral deck edge, and a bladder assembly positioned axially and radially inwardly of said deck edge co-operating when inflated with said deck edge to fold the overhanging circumferential edge portion of the component at such deck edge.

Compl. specn. 24 pages.

Drgs. 5 sheets.

CLASS : 32-F₂ a; 39-N; 40-B.

155770

Int. Cl. C07 c 67/60, 69/06; B01 j 11/00.

A PROCESS FOR THE RECOVERY OF THE OXIDATION CATALYST ON IMPROVED CO-OSIDATION-COESTERIFICATION METHOD FOR THE PRODUCTION OF DIMETHYL TEREPHTHALATE.

Applicant : HERCQFINA, OF 310 NORTH FRONT STREET, WILINGTON, NORTH CAROLINA 28403, U.S.A.

Inventor : 1. JESSE GALE WENDLE.

Application No. 1458/Cal/81 filed December 26, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for the recovery of the oxidation catalyst in an improved cooxidation-coesterification method for the production of dimethyl terephthalate, in which an esterified oxidate residue containing water-soluble, heavy metal is obtained and said catalyst is recovered in an aqueous solution by aqueous extraction of said residue, and said aqueous solution of recovered catalyst material is recycled, characterized in that iron oxidant material as herein described is admixed with said aqueous solution of recovered catalyst material to cause a substantial portion of any iron content of said solution to precipitate, and separating in a known manner precipitated iron from said solution.

Compl. specn. 15 pages.

Drg. 1 sheet.

CLASS : 32-F₁ & 32-F₂ d

155771

Int. Cl. : C 07 c 49/00.

PROCESS FOR THE PREPARATION OF ANTHRAQUINONE AND ITS SUBSTITUTED DERIVATIVES.

Applicant : PCUK PRODUITS CHIMIQUES UGINE KUHLMANN, OF TOUR MANHATTAN—LA DEFENCE 2, 5 AND 6 PLACE DE L'IRIS 92400 COURBEVOIE, FRANCE.

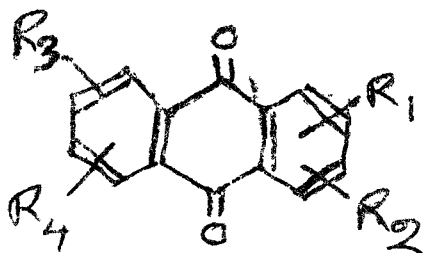
Inventor : MICHEL DEVIC.

Application No. 1459/Cal/81 filed December 26, 1981.

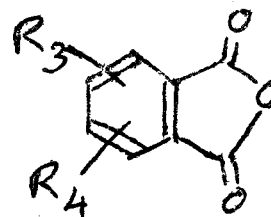
Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

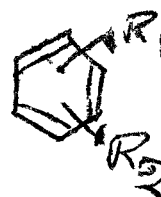
Process for the preparation of an anthraquinone compound of the general formula shown in Fig. 1 of the accompanying drawings,



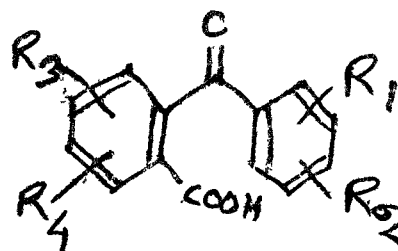
in which R₁, R₂, R₃, R₄ each represent a hydrogen or halogen atom or a linear or branched alkyl group having 1 to 5 carbon atoms, which comprises reacting, at a temperature of -60°C to +30°C, a substituted or unsubstituted phthalic anhydride of the general formula shown in Fig. 2 of the accompanying drawings



with a substituted or unsubstituted benzene compound of the general formula shown in Fig. 3 of the accompanying drawings,



in which R₁, R₂, R₃, R₄ have the same significance as above, in the presence of a catalyst made of a mixture of hydrofluoric acid and boron trifluoride, the amount of boron trifluoride being greater than 3 moles per mole of the phthalic anhydride, the amount of hydrogen fluoride being greater than 2 moles per mole of the phthalic anhydride and the amount of the benzene compound being 0.9 to 1.2 moles per mole of the phthalic anhydride, and converting by known method the substituted or unsubstituted O-benzoyl-benzoic acid thus obtained of the general formula shown in Fig. 4 of the accompanying drawings,



in which R₁, R₂, R₃, R₄ have the same significance as above, into a compound of formula shown in Fig. 1 of the drawings.

Compl. specn. 19 pages.

Drg. 1 sheet.

CLASS : 32-A₂

155772

Int. Cl. : C 07 c 49/68; C 07 d 55/46.

PROCESS FOR PREPARING ANTHRAQUINONE COMPOUNDS,

Applicant : HOECHST, AKTIENGESellschaft OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

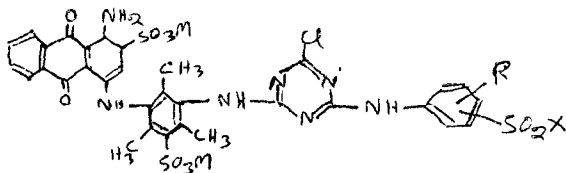
Inventors : 1. FRITZ MEININGER, 2. URSULA OTTEN, 3. ANNA GERTRUD RUDOLPH NEE OTTEN, 4. JOACHIM WILHELM OTTEN.

Application No. 462/Cal/82 filed April 26, 1982.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for the manufacture of a compound of the formula (1) of the accompanying drawings



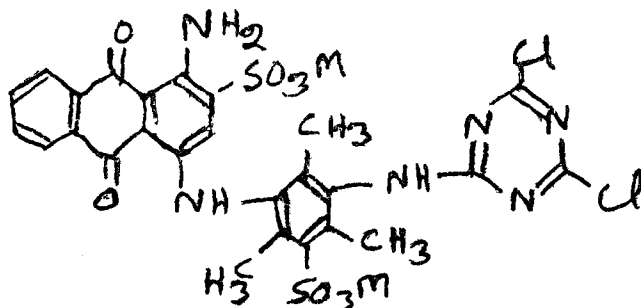
wherein

M is a hydrogen atom or the equivalent of a metal,

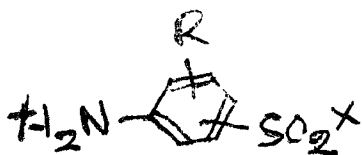
R is a hydrogen atom, a methyl, ethyl, methoxy, ethoxy or carboxy group or a halogen atom and

X is the vinyl group, a β -sulfatoethyl, a β -thiosulfato-ethyl or the β -chloroethyl group, and

the group of the formula SO_2X is bound to the benzene nucleus in the para position with respect to the amino group which comprises reacting a compound of the formula (3)



wherein M is as defined above 1, with an amino compound of the formula (4)



wherein R and X are as defined above.

Compl. specn. 15 pages.

Drg. 2 sheets.

CLASS : 32-F₂ a+, 55-E₄; 60-X₂d

155773

Int. Cl. : C 07 c 87/02; C 07 d 27/24, 31/20.

PROCESS FOR PREPARING ARYLCYCLOBUTYLAL-KYLAMINE DERIVATIVES.

Applicant: THE BOOTS COMPANY PLC, OF 1 THANE ROAD WEST, NOTTINGHAM ENGLAND.

Inventors : 1. JAMES EDWARD JEFFERY, 2. ANTONIN KOZLIK, 3. ERIC CHARLES WILMSHURST.

Application No. 383/Cal/82 filed April 5, 1982.

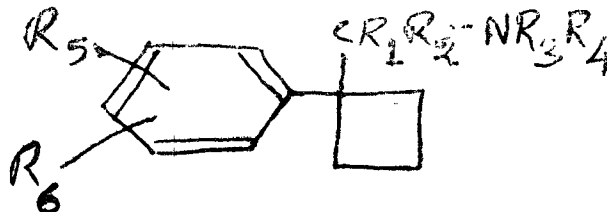
Convention dated 6th April, 1981 (8110709) U.K.

6th April, 1981 (8110710) U.K.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

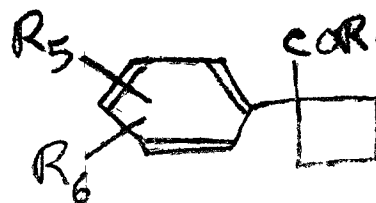
A process for the preparation of compounds of formula 1 shown in Fig. 1 of the accompanying drawings;



in which, R₁ is a straight or branched chain alkyl group containing 1 to 6 carbon atoms, a cycloalkyl group containing 3 to 7 carbon atoms, a cycloalkylalkyl group in which the cycloalkyl group contains 3 to 6 carbons and the alkyl group contains 1 to 3 carbon atoms, an alkenyl group or an alkyl group containing 2 to 6 carbon atoms or a group of formula II shown in Fig. 2 of the drawings,



in which R₉ and R₁₀, which are the same or different, are H, halo or an alkoxy group containing 1 to 3 carbon atoms; in which R₂ is H in which R₃ and R₄, which are the same or different, are H, a straight or branched chain alkyl group containing 1 to 4 carbon atoms, an alkenyl group having 3 to 6 carbon atoms, an alkynyl group having 3 to 6 carbon atoms, a cycloalkyl group in which the ring contains 3 to 7 carbon atoms, a formyl or R₃ and R₄ together with the nitrogen atoms form an optionally substituted heterocyclic ring having 5 or 6 atoms in the ring which may contain further hetero atoms in addition to the nitrogen atom; in which R₅ and R₆, which are the same or different, are H, halo, trifluoromethyl, an alkyl group containing 1 to 3 carbon atoms, an alkoxy or alkylthio group containing 1 to 3 carbon atoms, phenyl or R₅ and R₆, together with the carbon atoms to which they are attached, form a second benzene ring optionally substituted by one or more halo groups, an alkyl or alkoxy group containing 1 to 4 carbon atoms or the substituents of the second benzene ring together with the two carbon atoms to which they are attached may form a further benzene ring; and their pharmaceutically acceptable salts; said process being characterized in that it comprises the reductive amidation of ketones of formula V shown in Fig. 7 of the drawings,



wherein R₁, R₅ and R₆ are as defined above.

Compl. specn. 37 pages.

Drgs. 2 sheets.

CLASS : 206-E

155774

Complete specification left on 12th March, 1981.

Int. Cl. : H 021 1/14.

GLASS-MOLDED SEMICONDUCTOR DEVICE.

Applicant : HITACHI LIMITED, OF 5-1, MARUNOUCHI 1-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. HIROAKI HACHINO, 2. YUTAKA MISAWA, 3. TAKESHI ISHIZUKA.

Application No. 95/Cal/83 filed January 24, 1983.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A glass-molded semiconductor device comprising :
a pair of electrode leads formed by welding electrodes to one ends of leads, respectively; at least one semiconductor element brazed between said electrodes; and glass provided extending over from one of said electrodes to the other so as to cover said semiconductor element by means of molding, wherein said lead is made of a material excellent in thermal and electrical conductivities, while each of said electrodes is composed of a core material of the same kind as said material for said lead and a tubular material provided on the outer periphery of said core material and having a thermal expansion coefficient lower than that of said lead, which is welded to said core material.

Compl. specn. 19 pages.

Drg. 1 sheet.

CLASS 182-C

155775

Int. Cl. : A 231 1/26.

A PROCESS FOR MANUFACTURING A SWEETENING COMPOSITIONS.

Applicant : CUMBERLAND PACKING CORP. OF 2 CUMBERLAND STREET, BROOKLYN, NEW YORK-11205, U. S. A.

Inventors : 1. MARVIN ERNEST EISENSTADT, 2. ABRAHAM ITZHIK BAKAL

Application No. 319/Cal/83 filed March 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A process for manufacturing a sweetening composition with synergistic properties, which comprises mixing —

- 6-methyl-oxathiazione dioxide or an alkali metal or alkaline earth salt thereof in an amount of 1.5–9% by weight,
- a natural sugar, sugar alcohol or a polysugar in an amount of 87–98% by weight, and
- cream of tartar in an amount of 0.5%–4% by weight, in a manner such that the components are intimately and homogeneously mixed.

Compl. specn. 14 pages.

Drg. Nil.

CLASS : 34 B, C, 40 F

155776

Int. Cl. : C 07 b 7/00, C 08 b 1/00.

A PROCESS FOR THE PREPARATION OF HYDROLYZATE.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, DELHI, HAUZ KHAS, NEW DELHI-110016, INDIA.

Inventors : TARUN KUMAR GHOSE, RAJESHWAR DAYAL TYAGI, PARMENDU GHOSH.

Application for Patent No. 33/Del/80 filed on 19th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the preparation of hydrolyzate having the building blocks of cellulose and hemicellulose from lignocellulosic substances which comprises in subjecting the lignocellulosic substances to a pretreatment of delignification, said step of pretreatment comprising in soaking the cellulosic substances in at least 0.7% by weight of an alkali and remainder water and, thereafter, heating the reaction mixture to a temperature lower than 130°C but above 110°C for removal of the lignin and hemicellulose therefrom, subjecting the cellulose obtained from the treated feedstock to the step of hydrolysis in the presence of an enzyme such as cellulase to obtain said hydrolyzate.

Provisional specn. 7 pages.

Compl. specn. 8 pages.

CLASS : 32F₃(c)

155777

Int. Cl. : C 07 c 31/08.

A PROCESS FOR THE PREPARATION OF ETHYL ALCOHOL.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, DELHI, HAUZ KHAS, NEW DELHI-110016, INDIA AN INDIAN INSTITUTE.

Inventors : TARUN KUMAR GHOSE AND RAJESHWAR DAYAL TYAGI.

Application for patent no. 34/Del/80 filed on 19th January, 1980.

Complete Specification left on 12th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the preparation of ethyl alcohol from a solution containing fermentible sugar which comprises in the step of subjecting said solution to the step of fermentation in the presence of inoculum and nutrients as defined herein in a bioreactor at a pH of 3 to 6 and a temperature at 28 to 32°C characterized in that said fermentation is carried out in the presence of oxygen at a concentration of 0.1 to 0.35 v/v/min.

Provisional specification 6 pages.

Complete specn. 13 pages.

Drg. 1 sheet.

CLASS : 129 J

155778

Int. Cl. : B 30 b 3/00.

A SET OF ROLLS FOR A ROLLING MILL STAND.

Applicant : SACILOR ACIERIES ET LAMINOIRS DE LORRAINE, OF 6 RUE DE WENDEL, 57704 HAYANGE, FRANCE, A FRENCH COMPANY.

Inventor : GABRIEL BERNARD MENNEL.

Application for Patent No. 46/Del/81 filed on 27th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

15 Claims

A set of rolls for a rolling mill stand, said rolls being provided on peripheral surfaces of said rolls with a plurality of grooves for rolling shapes with webs of different heights, such as beams, rails, channels and other similar shapes, said plurality of grooves being nested on said rolls, whereby one of said grooves for rolling a said shape with the shortest web height has the web portion of said groove common to all the nested grooves.

Compl. specn. 20 pages.

Drg. 5 sheets.

CLASS : 83A₁

155779

Int. Cl. : A23I 1/02.

AN ENZYMATIC PROCESS FOR THE PREPARATION OF TAMARIND JUICE CONCENTRATE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SYED ABDUL JAIEEL KANTIENGAR NARAYANA, KONERIPATTI RAMASESHAN SREEKANTIAH AND PULIYUR KRISHNASWAMY IYER RAMANATHAN.

Application for Patent No 115/Del/81 filed on 27th February, 1981.

Complete Specification left on 19th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An enzymatic process for the preparation of tamarind juice concentrate comprising preparing tamarind fruit pulp slurry with water at 35° to 50°C, treating the slurry with pectic enzyme concentrate of fungal origin, from a strain of *Aspergillus Carbonarius*, separating the tamarind extract by filtration of the enzyme treated slurry and subjecting the said tamarind extract to evaporation to obtain the desired concentrate.

Provisional specn 5 pages

Drg. 1 sheet

Compl. specn. 10 pages.

CLASS : 34B, C; 40F

155780

Int. Cl. : C07b 7/00; C08b 1/00

A PROCESS FOR THE PREPARATION OF ETHYL ALCOHOL FROM LIGNOCELLULOSIC MATERIALS.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, DELHI HAUZ KHAS, NEW DELHI-110016, INDIA, AN INDIAN INSTITUTE.

Inventor : TARUN KUMAR GHOSE.

Application for Patent No. 135/Del/81 filed on 12th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the production of ethyl alcohol from ligno cellulosic materials which comprises preparation of cellulases by subjecting a micro organism to the step of growth of cell mass in the presence of a carbon source, subjecting cellulosic substances in the presence of cell mass to the step of bio conversion to obtain cellulase, said step of bio conversion being carried out under a cycling of the pH between 3 to 5.2, subjecting delignified cellulosic materials to the step of enzymatic hydrolysis in the presence of said cellulase to obtain a hydrolysate, subjecting said hydrolysate to a reaction with an inoculum and nutrients such as herein described at pH of 3 to 6 and at a temperature of 28 to 32°C in the presence of oxygen and at concentration of 0.1 to 0.35 v/v/min to obtain a broth having ethyl alcohol and, thereafter subjecting the ethyl alcohol to the step of concentration by known method.

Compl. specn 45 pages

Drg. 2 sheets.

CLASS : 34B, C & 40F

155781

Int. Cl. : C07b 7/00, C08b 1/00

A PROCESS FOR THE PREPARATION OF A HYDROLYZATE.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, DELHI HAUZ KHAS, NEW DELHI-110016, INDIA, AN INDIAN INSTITUTE.

Inventor : TARUN KUMAR GHOSE.

Application for Patent No. 136/Del/81 filed on 12th March, 1981.

Divided out of patent application No. 33/Del/80 filed on 19th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A process for the preparation of hydrolyzate containing the building blocks of cellulose and hemicellulose from ligno cellulosic substances which comprises in subjecting the ligno cellulosic substances to a pretreatment step of delignification, said pretreatment step comprising in soaking the ligno cellulosic substance in a fatty alcohol, such as butanol and/or ethanol, and water in the presence of a catalyst, such as herein described, heating the reaction mixture to an elevated temperature not exceeding 130°C, to cause a separation of lignin and hemicellulose, separating the cellulose therefrom, subjecting the cellulose obtained from said pretreatment step to the step of hydrolysis in the presence of an enzyme, such as cellulase, to obtain said hydrolyzate.

Compl. specn. 21 pages.

CLASS : 34B, C & 40F

155782

Int. Cl. : C07b 7/00, C08b 1/00.

A PROCESS FOR THE PREPARATION OF A HYDROLYZATE.

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, DELHI, HAUZ KHAS, NEW DELHI-110016, INDIA, AN INDIAN INSTITUTE.

Inventor : TARUN KUMAR GHOSE.

Application for Patent No. 137/Del/81 filed on 12th March, 1981.

Divided out of Patent No. 33/Del/80 filed on 19th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A process for the preparation of hydrolysate having the building blocks of cellulose and hemicellulose from ligno cellulosic substances which comprises in subjecting the ligno cellulosic substances to a pretreatment step of delignification, said pretreatment step consisting in treating the substance with steam to obtain a treated mixture consisting of lignin, hemicellulose, sugar obtained, by conversion of a part of hemicellulose and cellulose, treating said treated mixture with water, and, thereafter, with a known alkali for removal of hemicellulose, lignin and sugar and to obtain cellulose, subjecting the cellulose obtained from said pretreatment step to the step of hydrolysis in the presence of an enzyme, such as cellulase, to obtain said hydrolyzate.

Compl. specn. 13 pages.

CLASS : 94G

155783

Int. Cl. : B24d 9/00.

SEMI-PERMANENT PERIPHERAL GRINDING WHEEL.

Applicant : DE BIJERS INDUSTRIAL DIAMOND DIVISION (PROPRIETARY) LIMITED, OF 45 MAIN STREET, JOHANNESBURG, TRANSVAAL, SOUTH AFRICA, A COMPANY REGISTERED ACCORDING TO THE LAWS OF THE REPUBLIC OF SOUTH AFRICA.

Inventors : JOHN STIRLING SEXTON, BRIAN JAMES STONE, TREVOR DENNIS HOWES, COLIN ANDREW.

Application for Patent No. 165/Del/81 filed on 24th March, 1981.

Convention date 2nd April, 1980/8010991/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A semi-permanent peripheral grinding wheel having a radial static stiffness of no more than 1.5×10^6 Newtons/metre per mm of wheel width and a radial natural frequency of at least 500 Hertz comprising an ultrahard abrasive-containing rim as herein described, said rim being supported on a hub adapted to permit the rim to be depressible radially-inwardly of said wheel.

Compl. specn. 17 pages.

Drg. 3 sheets

CLASS : 32E

155784

Int. Cl. : C 08 f 1/00.

PROCESS FOR THE SINGLE-PHASE POLYMERIZATION OF ETHYLENE IN THE PRESENCE OF WATER.

Applicant : SOCIÉTÉ CHIMIQUE DES CHARBONNAGES, OF TOUR AURORA-PLACE DES REFLETS—CENDEX n° 5, F-92080 PARIS 14 DEFENSE 2, FRANCE, A FRENCH COMPANY

Inventors : JEAN PIERRE MACHON AND NICCO A DRIEN.

Application for Patent No. 186/Del/81 filed on 1st April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

15 Claims

A process for the single-phase polymerization of ethylene in the presence of at least one free radical initiator, such as herein described at a pressure of between 1000 and 3000 bar and at a temperature of between 180° and 300°C, in at least one reactor comprising at least one reaction zone, wherein polymerization is effected in the presence of water at a concentration higher than, or equal to, 1% by weight and lower than, or equal to, the saturation concentration of water in ethylene at the temperature of the reaction zone under consideration.

Complete specn. 12 pages.

CLASS : 98 I

155785

Int. Cl. : H 01 g 15/00; F 24 j 3/02.

ELECTRO-MAGNETIC RADIATION REFLECTIVE CONCENTRATOR.

Applicant : IAIET ENERGY COMPANY, A CORPORATION OF THE STATE OF TEXAS, U.S.A. OF 310 SOUTH PIONEER STATE 111 ABILENE, TEXAS 79605, UNITED STATES OF AMERICA.

Inventor : ALFRED LEROY JOHNSON, JR.

Application for Patent No. 189/Del/81 filed on 2nd April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

An electro-magnetic radiation reflective concentrator comprising :

- a main support;
- a cantilever beam coupled to said main support;
- a rigid frame;
- an absorber of electro-magnetic radiation;
- an intermediate support rigidly interconnecting said frame and said absorber;

2—487GI/84

a plurality of electro-magnetic radiation reflectors coupled to said frame and aimed at said absorber; and

means suspending said frame, reflectors, absorber and intermediate support from said cantilever beam;

said means being located between said reflectors and said absorber.

Compl. specn. 25 pages.

Drg. 8 sheets.

CLASS : 39 C & 40 F

155786

Int. Cl. : C 01 b 2/00.

IMPROVEMENTS IN OR RELATING TO PROCESSES OF AND APPARATUS FOR THE PRODUCTION OF AMMONIA SYNTHESIS GAS.

Applicant : L' AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ÉTUDE ET L'EXPLOITATION DES PROCÉDÉS GEORGES CLAUDE OF 75 QUAI ORSAY-75007 PARIS, FRANCE, A FRENCH BODY CORPORATE.

Inventors : MAURICE GRENIER, ALBERT HALFON.

Application for Patent No. 192/Del/81 filed on 6th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the production of ammonia synthesis gas, the process comprising :

cooling to a first temperature of the order of 190°C a first flow of crude gaseous hydrogen containing nitrogen and impurities such as carbon monoxide, argon and methane and feeding said cooled flow into a scrubbing tower;

cooling to a temperature not lower than first said temperature a second flow of nitrogen;

feeding a part of said second flow, cooled to said first temperature and liquefied, into a top portion of said column;

drawing off a third flow of scrubbed gas from the top of said column, and heating said third flow in countercurrent heat exchange relationship with said first and second flows;

drawing off a fourth flow in liquid form, essentially containing nitrogen and said impurities, from the bottom of said column, expanding said fourth flow and heating it in countercurrent heat exchange relationship with said first and second flows; and

injecting the rest of said second flow into said third flow heated to a second temperature to make a mixture, the mixture being entirely in gaseous form.

Compl. specn. 11 pages

Drg. 3 sheets.

CLASS : 189

155787

Int. Cl. : A 61 k 7/16.

DENTAL CREAM.

Applicant : COIGATE-PAOLMOLIVE COMPANY, OF 300 PARK AVENUE NEW YORK, NEW YORK 10022, UNITED STATES OF AMERICA A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : KENNETH HARVEY, STEPHEN TAMIS CONNORS & ERIC BAINES.

Application for Patent No. 193/Del/81 filed on 6th April, 1981.

Convention date 25th April, 1980/80/13561/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An opaque dental cream comprising 0.5–2% by weight of an opacifying agent, a binary fluorine-providing system which provides 750–1225 ppm fluorine from sodium mono-fluoro-phosphate and 50–1000 ppm fluorine from sodium fluoride and 15–20% by weight of a polishing agent consisting essentially of sodium aluminosilicate, up to about 1% by weight of which is alumina

Compl. specn. 11 pages.

CLASS : 90J, C, I 155788

Int. Cl. : C 03 c 27/00.

PROCESS FOR THE PREPARATION OF MOULDING MATERIALS COMPRISING GLASS FIBRES.

Applicant : MUNISH CHANDRA AGARWAL, AN INDIAN NATIONAL RESIDING AT H-106, CANNAU-GHT CIRCUS, NEW DELHI-110001, INDIA.

Inventor : PULLAN CHACKO ANTONY.

Application for Patent No. 246/Del/81 filed on 22nd April, 1981.

Complete specification left on 20th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the preparation of a moulding material having glass fibres as hereinbefore defined as fillers, which comprises the step of applying a wetting agent consisting of an amino modified resin, polyester, epoxy, silicone or phenolic resins, applying on the wetting agent a binder comprising a phenolic amino or epoxy resin or one of their modified resins, co-polymerising the wetting agent and the binder, characterized in that the molecular weight of the wetting agent is lower than that of the binder and that the moulding material has a cup flow test value of 0 to 40 seconds.

Prov. specn. 7 pages.

Compl. specn 10 pages.

CLASS : 39-F 155789

Int. Cl. : C 01 b 31/32

PROCESS FOR MAKING CALCIUM CARBIDE.

Applicants : HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY AND RHEINISCHE BRAUNKOHLENWERKE AKTIENGESELLSCHAFT, D 5000 KOLN 41, FEDERAL REPUBLIC OF GERMANY.

Inventors: 1 HANS-IOACHIM KERSTING, 2. ERHARD WOLFRUM, 3 WILLI PORTZ, 4. GEORG STRAUSS.

Application No. 935/Cal/81 filed August 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Process for making calcium carbide by reacting an excess of coke with quicklime in the presence of oxygen in an oxygen-thermal furnace, which comprises :

introducing a mixture of precrushed coal as a starting material for coke and precrushed lime hydrate $[\text{Ca}(\text{OH})_2]$ or precrushed limestone (CaCO_3) as a starting material for quicklime into a drying zone, freeing it therein at 80 to 120°C from adhering water;

introducing the warm mixture coming from the drying zone, and air, into a calcining apparatus, the coal constituent being coked and the lime constituent being simultaneously dehydrated or decarbonized therein at temperatures of 900 to 1400°C;

directly delivering the thermally-pretreated mixture of starting materials with an inherent temperature of 900 to 1000°C to the oxygen-thermal-furnace; and

reacting it in the presence of oxygen to calcium carbide therein;

using the waste heat originating from the calcining apparatus for the generation of superheated high pressure steam from boiler feed water;

using the superheated high pressure steam for operating a turbine, the latter being used for the liquefaction of air and separation into its components at low temperature so as to obtain the oxygen necessary for operation of the oxygen-thermal furnace, and also for the generation of electrical power, hot low pressure steam issuing through the turbine's opposite side being introduced at least partially into the drying zone for drying the mixture of starting materials therein; and

taking condensate obtained in the drying zone therefrom, preheating it by means of waste gases originating from the oxygen-thermal furnace, and using it as boiler feed water for the generation of superheated high pressure steam by means of waste heat originating from the calcining apparatus.

Compl specn. 16 pages

Drg. 1 sheet.

CLASS : 24-B; 93

155790

Int. Cl. : B 22 f 3/14; B 61 h 7/02.

AN IRON-BASE POWDER FRICTION MATERIAL.

Applicant : ARFX CORPORATION OF 530 FIFTH AVENUE, NEW YORK, NY 10036, U. S. A.

Inventor : HERBERT WALDEN LLOYD.

Application No. 1304/Cal/81 filed November 23, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An iron-base, sintered powder metal friction material for railroad braking use consisting essentially of, by volume, 10–70% carbon; 0–2.5% sulfur; 0–10% alumina; 1–40% of a metal powder additive selected from the group consisting of copper, manganese, ferrochrome, and chrome carbide or mixtures thereof; and the balance iron.

Compl. specn 10 pages.

Drg. Nil.

CLASS : 85-G

155791

Int. Cl. : F 27 b 3/02.

IMPROVED HEAT GENERATOR.

Applicant & Inventor : RICHARD J. MONRO OF 41 SUNSET LANE, RIDGEFIELD, CONNECTICUT 06877, U. S. A.

Application No. 1431/Cal/81 filed December 18, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A heat generator wherein a fuel, containing pollutants, is burned with an inflow of air to generate a hot combustion gas which exhausts as a flue gas at an elevated temperature and contains particulates and gaseous pollutants, which comprises :

heat exchange means for transferring heat from the flue gas to the inflow of air; and,

means for applying a pollutant removing liquid onto said heat exchange means at a location selected to enable direct contact by the flue gas with said liquid for removal of pollutants and particulates from the flue gas and protection of said heat exchange means against corrosive effects of the removed pollutants.

Compl. specn. 13 pages.

Drg. 1 sheet.

CLASS : 47-A & B; 88-D

155792

Int. Cl. : B 01 j 1/00; C 10 j 5/00.

COAL GASIFICATION REACTORS.

Applicant : KRW ENERGY SYSTEMS INC., THREE GREENWAY PLAZA, HOUSTON, TEXAS 77046, UNITED STATES OF AMERICA (FORMERLY IN THE NAME OF WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA).

Inventors : 1. WEN-CHING YANG, 2. SOUNG-SIK SHIN/KIM.

Application No. 70/Cal/82 filed January 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A coal gasification reactor of the fluidized-bed type comprising a vertically disposed vessel having an upper section of an inside diameter larger than the inside diameter d of a lower separator section, characterized in that a conical perforated distribution plate (20) is disposed at the bottom of said separator section (16), the angle of said plate (20) relative to horizontal being greater than 7° and less than 15° , that means (34) are provided for injecting a fluidizing gas upwardly through said perforated distribution plate (20) and into said separator section so as to maintain a fluidization velocity of about $1.2 U_{mf}$ (minimum fluidization velocity) in said lower separator section, a plurality of solids injection tubes (12) extend vertically a length l upward from said distributor plate (20) such that the ratio l/d being less than about 2.5, and that means (30) are provided for removing solids from a top said distribution plate (20).

Compl. specn. 12 pages.

Drg. 4 sheets.

CLASS : 97-B

155793

Int. Cl. : H 05 b 7/12.

ELECTRODE FOR ARC FURNACES.

Applicant : ARC TECHNOLOGIES SYSTEMS LTD., BOX 61 GRANDCAYMAN, CAYAMAN ISLANDS, BRITISH WEST INDIES.

Inventors : 1. DR. DIETER H. ZOLLNER, 2. OBERING FRIEDRICH RITTMANN, 3. HERBERT DUNG, 4. JOHANNES HAREMSA, 5. DR. GEORG BAUER, 6. DR. JOSEF OTTO, 7. OBERING JOSEF MUHLENBECK, 8. DR. INGE LAUTERBACH-DAMMLER.

Application No. 74/Cal/82 filed January 18, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

30 Claims

An arc furnace electrode comprising a top portion of metal having a bottom region, a replaceable bottom of consumable material, screw nipple means interconnecting said top portion and said bottom portion, liquid cooling means for said top portion defining a feed duct and a return duct, a protection covering provided for said top portion at least partially and more particularly at said bottom region, said protective covering being constituted by a detachably surmounted sheath of mechanically resistant material which is electrically conductive.

Compl. specn. 24 pages.

Drgs. 5 sheets

CLASS : 107-C.

155794

Int. Cl. F16 j 11/04, 9/16.

SEALING SYTEM FOR WET CYLINDER LINERS.

Applicant : MASCHINENFABRIK AUGSBURG NURNBERG AKTIENGESELLSCHAFT, OF KATZWANGER STRASSE 101, D 8500 NURNBERG, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DIPL.-ING. ULRICH KAXENMAIER, 2. GUNTER QUAST.

Application No. 102/Cal/82 filed January 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Sealing system for wet cylinder liners with flange seating in the cylinder head deck of the crankcase of internal combustion engines where a seal ring is an interference fit directly in the recess between the upper guiding portion and the flange seat, characterized in that an additional ring groove (8) is provided in the area of the upper guiding portion (3) of the liner (1) and that a second seal ring (10) is arranged in this ring groove (8).

Compl. specn. 6 pages.

Drgs. 1 sheet.

CLASS : 33-H.

155795

Int. Cl. B822d 25/02.

CAST RECUPERATOR TUBE.

Applicant : THE AIR PREHEATER COMPANY, INC., OF ANDOVER ROAD, WELLSVILLE, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD FRANKLIN STOCKMAN, 2. PAUL LEROY MACLER.

Application No. 128/Cal/82 filed February 2, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

The method of casting a hollow metallic envelope (8) for a recuperative heat exchanger that comprises the steps of forming upper and lower portions of a sand mold (10) with walls inletted to form the outer periphery of a cavity and having passageways formed therein that include sprues (12) and gates (16) for the pouring of molten metal into the cavity, forming a sand core (18) somewhat smaller than the outer periphery of the cavity with protuberances (26) that extend laterally to the sides of the mold (10), placing the core (18) in the lower portion of the mold (10) whereby the lateral protuberances (26) are supported on the sides of the mold and the cavity of the mold (10) loosely receives the lower portion of the core (18) to provide a lower clearance space therebetween, superimposing the upper portion of the mold (10) over the lower portion of the mold (10) whereby the inletted face thereof loosely receives the upper portion of the core (18) to form an upper clearance space therebetween that is continuous with the lower clearance space, enclosing abutting upper and lower portions of the mold in a strong back (32) that imparts rigidity to the mold (10) and pouring a quantity of molten metal into the sprues (12) and gates (16) of the mold (10) to supply molten metal to the clearance space (25) that upon cooling solidifies to a hollow envelope (8).

Compl. specn. 10 pages.

Drgs. 1 sheet.

CLASS 146-D1.

155796

Int. Cl. : H01 s 3/00.

LASER RANGEFINDERS.

Applicant : BARR & STROUD LIMITED, OF CAXTON STREET, ANNIESLAND, GLASGOW G13 1HZ, SCOTLAND.

Inventor : 1. ADRIAN ROGER FARLOW.

Application No. 338/Cal/82 filed March 25, 1982.

Convention dated 25th March 1981 (8109051) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A laser range finder wherein the receiver comprises an avalanche photodiode the bias voltage of which is provided by circuitry controlled in time from the laser transmitter to establish substantially zero bias voltage when the transmitter

is fired and to increase the bias voltage during a predetermined time interval thereafter to establish a final bias voltage substantially equal to a fixed percentage below the breakdown voltage of the photodiode prevailing immediately prior to firing of the laser transmitter, said circuitry incorporating determining means to determine said breakdown voltage at the operating temperature prevailing immediately prior to firing of the laser transmitter.

Compl. specn. 12 pages.

Drgs. 2 sheets.

CLASS : 126-C.

155797

Int. Cl. : G01 r 3/00.

APPARATUS FOR THE DETERMINATION OF KINETICS OF STRUCTURE FORMATION IN A BINDER.

Applicant : LENINGRADSKY GORNY INSTITUT IMENI G. V. PLEKHANOVA, Leningrad 21 Linia, 2, U.S.S.R. AND PROIZVODSTVENNOE GEOLOGICHESKOE OB'EDINENIE TSENTRAL'NYKH RAIONOV "TSENTRAGEOLOGIA", MOSCOW, 2YA ROSCHINSKAYA ULITSА 10, U.S.S.R.

Inventors : 1. IGOR LVOVICH EBERLING, 2. LEV ALEKSANDROVICH TERESCHENKO, 3. NIKOLAI IVANOVICH NIKOLAEV, 4. ARIAN MIKHAILOVICH YAKOVLEV, 5. VITALY IVANOVICH KOVALENKO, 6. NIKOLAI KONSTANTINOVICH LIPATOV, 7. RUBEN ARMEVNOVICH TATEVOSIAN, & MIKHAIL YAKOVLEVICH TITOV.

Application No. 426/Cal/82 filed April 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

An apparatus for determining kinetics of structure formation in binders by subjecting a product made from a binder to external actions, applying an electric voltage thereto and recording the electrical conductivity thereof during the structure formation process, comprising an a.c. voltage generator connected through a coupling means to a product made from a binder to be acted upon and to a device for recording the response of the product to said action, the coupling means comprising an electrical conductivity pick-up installed in the product and connected to the a.c. voltage generator and to a device for recording the response of the product to said action via a serially connected differential inductive bridge circuit, a voltage amplifier and a phase detector.

Compl. specn. 17 pages.

Drgs. 3 sheets.

CLASS : 136-E.

155798

Int. Cl. H01 r 43/00.

METHOD OF PRODUCING AN ELECTRICALLY INSULATED CONDUCTIVE BODY.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, 2-3, MARUNOUCHI 2-CHOME, CHIYODAKU, TOKYO, JAPAN.

Inventors : 1. EIKI JIDAI, 2. AIICHIRO HASHIZUME.

Application No. 467/Cal/82 filed April 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method for producing an electrically insulated conductive body which comprises steps of immersing an electrically conductive body into an electro-deposition paint obtained by dispersing into water mica as an inorganic insulative substance and water-dispersion varnish such as herein described as an organic insulative substance, forming an electro-deposited layer on the electrically conductive body by electro-phoresis, drying the electrically conductive body coated with the electro-deposited layer under heat, immersing said coated electrically conductive body into a water-soluble resin liquid such as herein described, containing therein a curing accelerator, followed by

heat-setting the same, and impregnating said electro-deposited conductive body with an impregnating resin such as herein described, followed by heat-setting the same.

Compl. specn. 13 pages.

Drgs. Nil.

CLASS : 117-D.

155799

Int. Cl. : E05 b 37/00.

COMBINATION LOCK.

Applicant : AMERICAN TOURISTER, INC., OF 91 MAIN STREET, WARREN, RHODE ISLAND 02885, U.S.A.

Inventor : 1. LOUIS ZAMPANI, JR.

Application No. 487/Cal/82 filed April 30, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A combination an permutation lock of the type which is to receive and lock to a hasp, said lock comprising :

frame means including stop means,

a shaft mounted to said frame means and defining a longitudinal axis,

a plurality of manually actuatable rotary members mounted on said shaft for rotary movement about said longitudinal axis, each rotary member including :

an annular actuating surface having a camming segment and an indented segment, and

an annular indicator surface carrying indicia and being in driving engagement with said actuating surface,

a bolt spaced from said shaft and including slot means through which said indicator surfaces project such that said actuating surfaces are engageable with said bolt, said bolt including front and rear ends,

said front end having a deflecting surface and a latch disengageable in a locking position when said bolt is engaged by an opposing one of said camming segments, and in an unlocking position when said bolt is disengaged from said camming segments.

spring means for biasing said bolt toward said actuating surfaces of said rotary members so that said rear end of said bolt is biased against said stop means of said frame means,

said spring means being yieldable to enable said camming segments to swing said bolt about a first fulcrum at said stop means to move said latch from said unlocking position to said locking position,

said rear end of said bolt means being unsupported opposite said stop means so as to be movable in a direction away from said stop means in response to swinging of said bolt about a second fulcrum defined by at least one of said camming segments to enable said latch to be moved to said unlocking position from said locking position when so urged by said hasp acting against said deflecting surface.

Compl. specn. 19 pages.

Drgs. 5 sheets.

CLASS : 102-B.

155800

Int. Cl. F15 c 3/00.

A HYDRAULIC CONTROL SYSTEM PARTICULARLY TO HYDRAULIC CIRCUITS FOR ACTUATORS SUCH AS FOUND ON CRANES.

Applicant : SPERRY CORPORATION, OF 1401 CROOKS ROAD TROY, MICHIGAN 48084, U.S.A.

Inventor : 1. VINOD KUMAR NANDA.

Application No. 540/Cal/82 filed May 14, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

A hydraulic control system particularly to hydraulic circuits for actuators such as found on cranes comprising :

a hydraulic actuator having opposed openings adapted to alternately function as inlets and outlets for moving the element of the actuator in opposite directions,

a pump for supplying fluid to said actuator,

a meter-in valve means to which the fluid from the pump is supplied,

said valve being pilot controlled,

a pilot controller for alternately supplying fluid at pilot pressure to said meter-in valve means for controlling the direction of movement of the meter-in valve,

a pair of lines extending from said meter-in valve means to said respective openings of said actuator,

a meter-out valve associated with each opening of the actuator for controlling the flow out of said actuator,

each said meter-out valve being pilot operated by the pilot pressure from said controller,

and a pilot operated check valve operable for controlling flow from the meter in valve means to one end of said actuator and for preventing flow out said end of said actuator, said pilot operated check valve being operable at a lower pilot pressure than said meter-out valve means and including time delay means such that said valve functions to prevent flow out of said actuator after a predetermined time delay from the time when pilot pressure to said meter-out valve means is interrupted, ensuring relief valve protection.

Compl. specn. 15 pages.

Drgs. 1 sheet.

CLASS : 148-H.

155801

Int. Cl. H05 g 1/00.

AN X-RAY EXAMINATION DEVICE.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH WEST GERMANY.

Inventor : 1. ERICH FORSTER.

Application No. 571/Cal/82 filed May 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

12 Claims

An X-ray examination device including an X-ray tube with a flange-mounted radiation collimator and an image-film carrier held in alignment with the X-ray tube, having holders for the central positioning of X-ray film, cassettes of different formats with specified sizes, characterised in that for each cassette format several holding jaws (52 to 59, 65 to 68) are provided and that in each case only the holding jaws (52 to 59, 65 to 68) corresponding to a specific cassette size can be brought jointly by means of an adjustment knob (10) from a rest position on a plate parallel and directly adjacent to the inner bearing surface (60) for the X-ray film cassettes to be in an operating position and situated at a distance from the bearing surface (60).

Compl. specn. 16 pages.

Drgs. 2 sheets.

CLASS : 64-B₁, B₂.

155802

Int. Cl. H02 g 15/06.

TERMINAL DISTRIBUTION BOX FOR MULTIWIRED POWER CABLES OR MULTIWIRED POWER LINES WITH SHIELDED WIRES.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. KLAUS DUSSEL, 2. GERHARD OTT

Application No. 577/Cal/82 filed May 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

A terminal distribution box for distributing the ends of individual plastics-insulated electrical lines which make-up a multi-wire power cable or line with shielded wires, said box comprising an insulating housing through which said lines extend and which distributes the ends of the lines, and each of said line ends being covered with a respective shrink-on sleeve which fits over a tubular insulating body arranged over the line end in the region of the point of removal of an outer conductive layer of the line end; characterised in that the insulating housing and the tubular insulating bodies each consist of a shrink-on moulded part, and each tubular insulating body has a wall thickness of at least 4mm.

Compl. specn. 7 pages.

Drg. 1 sheet.

CLASS : 156-D, E, G.

155803

Int. Cl. : B 23 f 15/08; F 04 d 29/00, F 04 d 29/18.

A METHOD OF MAKING A ROTOR OF A FLUID ENERGY TRANSLATING DEVICE SUCH AS PUMPS AND MOTORS.

Applicant : SPERRY CORPORATION, OF 1401 CROOKS ROAD, TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventor : 1. ROBERT WILLIAM STEPHEN.

Application No. 627/Cal/82 filed June 1, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

A method of making a rotor of a fluid energy translating device such as pumps or motors wherein the rotor has an annular passage entirely within the rotor, a plurality of radially extending slots intersecting said passage and axial opening intersecting said annular passage which comprises:

forming an annular groove in the periphery of a solid body, closing the open side of said groove to provide said annular passage.

Compl. specn. 14 pages.

Drgs. 3 sheets.

CLASS : 10-F.

155804

Int. Cl. : C06 d 1/07.

DEVICE FOR ACHIEVING HORIZONTAL ORIENTATION OF ROCKETS, OPERATED IN LIQUIDS, USED FOR TRANSPORTING EXPLOSIVES TO SOLID MATERIALS TO BE COMMUNUTED.

Applicant : BASF AKTIENGESELLSCHAFT, AT 6700 LUDWIGSHAFEN, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. KARL WISSEROTH.

Application No. 751/Cal/82 filed June 26, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

A device for achieving horizontal orientation of rockets, operated in liquids, used for transporting explosives to solid materials to be comminuted, characterized in that a magnet is attached to the rocket body, and the axis of the rocket and the magnetic axis of the magnet form an azimuthal angle α , which determines, in the manner as herein described, the direction of the rocket relative to the geomagnetic meridian.

Compl. specn. 7 pages.

Drgs. 1 sheet.

CLASS : 32-F₂ (b); 55-D₂.

155805

Int. Cl. C07 d 5/16, 85/22; AO1N 9/00.

A PROCESS FOR PREPARING 3-ARYL-ISOXAZOL-5-YL-BENZOIC ACID AND ESTERS THEREOF.

Applicant : MONSANTO COMPANY, 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63166, UNITED STATES OF AMERICA.

Inventors : 1. ROBERT KENNETH HOWE, 2. KOU CHANG LIU.

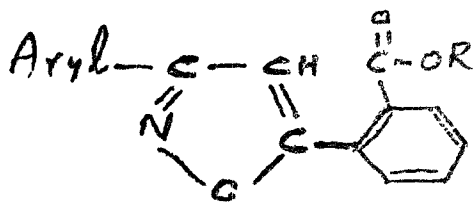
Application No. 115/Cal/83 filed January 31, 1983.

Division of Application No. 1321/Cal/79 dated 19th DECEMBER 1979.

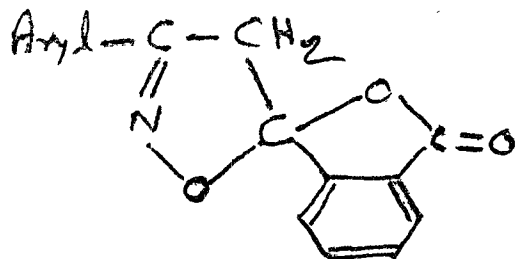
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A process for preparing 3-Aryl-isoxazol-5-yl-benzoic acid and esters thereof having the formula I shown in the drawings.



Formula I

wherein R is hydrogen or R'CH₂- and R' is hydrogen or alkyl having up to four carbon atoms, inclusive which comprises reacting a spiro compound having the formula II shown in the drawings

with ROH under acidic conditions at a temperature ranging from room temperature to their fullux temperature of the ROH compound.

Compl. specn. 11 pages.

Drg. 1 sheet.

CLASS : 33-F.

155806

Int. Cl. : B 22 d 23/04, 23/06.

A RIGID SELF SUPPORTING GAS PERMEABLE LOW TEMPERATURE BONDED SAND PARTICLE MOLD.

Applicant : HITCHINER MANUFACTURING CO., INC., AT MILFORD, NEW HAMPSHIRE, UNITED STATES OF AMERICA.

Inventors : 1. GEORGE DIXON CHANDLEY, 2. RICHARD LESTER SHARKEY.

Application No. 623/Cal/83 filed May 18, 1983.

Division of Application No. 1020/Cal/79 dated 27th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A rigid self supporting gas permeable low temperature bonded sand particle mold for casting metals having side surfaces extending between vertically spaced upper and lower surfaces with at least one mold cavity spaced therebetween,

each mold cavity having at least one individual gate passage or portion thereof having a maximum width or diameter of less than 0.75 inches and the lower open end of each gate passage having a vertical portion terminating at the lower surface of the mold.

Compl. specn. 19 pages.

Drgs. 2 sheets.

CLASS : 33-F & H.

155807

Int. Cl. : B 22 d 23/04, 23/06.

A METHOD AND APPARATUS OF CASTING METAL IN A RIGID, SELF-SUPPORTING GAS PERMEABLE, LOW TEMPERATURE BONDED SAND GRAIN MOLD.

Applicant : HITCHINER MANUFACTURING CO., INC., AT MILFORD, NEW HAMPSHIRE, UNITED STATES OF AMERICA.

Inventors : 1. GEROGE DIXON CHANDLEY, 2. RICHARD LESTER SHARKEY.

Application No. 640/Cal/83 filed May 21, 1983.

Division of Application No. 1020/Cal/79 dated 27th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A method of casting metal in a rigid, self-supporting, gas permeable, low temperature bonded sand grain mold having side surfaces extending between vertically spaced upper and lower surfaces, the mold comprising a single mold cavity or a plurality of mold cavities disposed in the same horizontal plane and a plurality of gate passage, which have individual open ends or a common open end exposed to the lower surface of the mold and provide for simultaneous flow through them of molten metal to the mold cavity or cavities from their open end or ends, comprising submerging the lower surface of the mold beneath the surface of an underlying molten metal while maintaining the upper surface and at least a portion of the side surfaces of the mold above the molten metal, applying a reduced pressure to the upper surface of the mold to fill the gate passages and the mold cavity or cavities simultaneously with molten metal, and removing the submerged portion of the mold from contact with the underlying molten metal after the molten metal has solidified in narrow portions of the gate passages and before said solidified metal has remelted.

Compl. specn. 20 pages.

Drgs. 2 sheets.

CLASS : 102C.

155808

Int. Cl. : F03b 17/00.

"PRESSURIZED FLUID ENGINE EQUIPPED WITH MEANS FOR SELECTING ITS SPEED OF ROTATION".

Applicant : POCLAIN HYDRAULICS, OF BOITE POSTALE n°12, 60410 VERBERIE, FRANCE, A FRENCH COMPANY.

Inventors : BERNARD RENE ALLART, JEAN-CLAUDE LALLIER AND ALAIN WILLIAM NOEL.

Application for patent No. 194/Del/81 filed on 7th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

Pressurized fluid engine constituted by :

a plurality of cylinders divided into at least a first and second groups of cylinders,

a plurality of pistons movably mounted inside said cylinders, one piston per cylinder, each piston defining with the corresponding cylinder a chamber of variable volume,

a first fluid control valve with two enclosures connected by connecting conduits to a second fluid control valve, said second fluid control valve selectively placing in communication the said connecting conduits with a source of pressurized fluid and with a relief reservoir, and which first fluid control valve places successively in communication each chamber of variable volume of the cylinders of at least the first group of cylinders with the connecting conduits,

a means for selecting the speed of rotation of the engine which comprises a body connected by said connecting conduits to the cylinders of said groups, a member which is movable inside said body and occupying selectively a first and a second position, and fluid passages provided in one of the two members—body and movable member, the selecting means creating, in the first position of the movable member, a communication between the cylinders of the second group of cylinders and said enclosures, and in second position of the movable member, isolating said cylinders of said second group of cylinders from at least one of the said enclosures, and,

an auxiliary device for supplying the cylinders of the second group of cylinders comprising fluid passages which are automatically placed in communication, when the movable member of the selecting means is placed in its second position, on the one hand with that of the two enclosures which contains the fluid under the lowest pressure, and on the other hand with the cylinders of the second group of cylinders,

characterized in that said supply auxiliary device is constituted by a shuttle valve comprising a body, a connecting element mounted inside the body, two fluid jacks with antagonistic effects, connected to said connecting element and fluid passages adapted at least when the movable member of the selecting means is placed in the second position, to create a communication between one or the other of the enclosures and the cylinders of the second group of cylinders, the said connecting element being :

movably mounted inside the body of the auxiliary device and occupying one of a first and a second particular positions wherein the said passages place in communication one or the other of the enclosures with the cylinders of the second group of cylinders thus creating a communication between the cylinders of the second group of cylinders and the said enclosure containing the fluid under the lowest pressure.

said jacks connected to the said enclosures, at least when the movable body of the selecting means is placed in its second position.

Compl. specn. 21 pages.

Drgs. 6 sheets.

CLASS : 73.

155809

Int. Cl. : F06h 7/00.

"APPARATUS FOR APPLYING LIQUID CHEMICALS TO A MOVING WEB".

Applicant WEST POINT-PEPPERELL, INC. A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF GEORGIA, U.S.A., OF 400 WEST 10TH STREET, WEST POINT, STATE OF GEORGIA, UNITED STATES OF AMERICA.

Inventors : GAYRON NIXON DAVIS, LARRY STEVE SELLERS AND WINSTON EARL HAGBORD.

Application for patent No. 196/Del/81 filed on 8th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

14 Claims

Apparatus for applying a liquid chemical to a movable web, comprising :

a manifold for receiving and discharging said chemical, said manifold including a pipe to receive said chemical, said pipe being provided with a plurality of spaced orifices located along its length for discharging the chemical;

a length of porous material positioned along said manifold adjacent the orifices for receiving and dissipating the jets of chemical discharged by the manifold

a fixed member having a curved surface terminating in a straight edge, said member contacting the porous material along a line substantially parallel to said straight edge, said chemical thereby being transferred to the member from the porous material and moving under the force of gravity as a thin film along said curved surface to said edge; and

means for tensioning the web against said edge and for moving the web with respect to the fixed member whereby said chemical is applied to the web.

Compl. specn. 10 pages.

Drgs. 2 sheets.

CLASS : 70C.

155810

Int. Cl. : C23b 5/00.

"IMPROVED PROCESS FOR PLATING ON ALUMINIUM OR ALUMINIUM SUBSTRATES".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : BALKUNJE ANATHA SHENOI, SUBBIAH JOHN, NANDAGOPAL VARADAPPA SHANMUGAM, KUMANDUR NARAYANA SRINIVASAN AND MARIAPPAN SELVAM.

Application for patent No. 199/Del/80 filed on 8th April, 1981.

Complete specification left on 5th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

An improved process for plating of aluminium or aluminium alloy substrates comprising the steps of mechanical polishing and buffing aluminium base metal substrates, degreasing alkaline cleaning, acid dipping and immersion deposition of zinc thereon by double zincating step from an aqueous zincating solution and further electroplating the thus treated substrate with copper, nickel, chromium and the like by conventional processes characterised in that a dilute aqueous zincating solution is used which contains (a) a zinc salt (b) an alkali metal hydroxide, (c) a fluoro-compound of a metal of group IV B of the periodic table and (d) a complexing agent as herein described.

(Provisional Specification 9 pages.

Complete specification 10 pages).

CLASS : 32F₂(.).

155811

Int. Cl. : C07d 89/00.

"METHOD OF MAKING 2, 3 DIHYDRO-5, 6-DIPHENYL-1, 4-OXATHIIN".

Applicant : UNIROYAL LTD., A CORPORATION ORGANISED UNDER THE LAWS OF CANADA, LOCATED AT 1500, DON MILLS ROAD, DON MILLS, ONTARIO M3B 3L4, CANADA, A CANADIAN COMPANY.

Inventors : MICHAEL ANTHONY PUTTOCK, ETHEL ELLEN FELAUER AND BRUCE ALLAN GRAHAM.

Application for patent No. 202/Del/81 filed on 9th April, 1981.

Convention date 2nd May, 1980/351139 (Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A method of making 2, 3-dihydro-5, 6-diphenyl-1, 4-oxathiin comprising reacting benzoic acid and 2-mercaptoethanol in the presence of an alkanol containing 2 to 8 carbon atoms and an acidic catalyst, removing water of reaction, and thereafter recovering in a known method per se 2, 3-dihydro-5, 6-diphenyl-1, 4-oxathiin.

Compl. specn. 11 pages.

Drg. 1 sheet.

CLASS : 40 F.

155812

Int. Cl. B01j — 1/00.

"INSTALLATION FOR DEWATERING COAL".

Applicant : RUHRKOHL AKIENGESellschaft, OF 1 RELLINGHAUSER STRASSE, 4300 ESSEN 1, WEST GERMANY, A WEST GERMAN BODY CORPORATE.

Inventors : WERNER BARTH, JORN FUNFSTUCK, JOHANN HARZER AND WERNER KOTENBUSCH.

Application for patent No. 211/DEL/1981 filed on 10th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

An installation for dewatering hydraulically conveyed coarse-grained black coal under the influence of tropical climatic conditions, comprising at least two circular storage places and a slurry pipe for conveying the coal, the slurry pipe being adjustable so that its outlet can be arranged centrally over one of the storage places, each storage place being delimited by overflow plates inserted in the ground in a water-tight manner, the upper edges of the overflow plates extending in a common horizontal plane, the overflow plates being surrounded by a water channel provided with a drain.

Compl. specn. 6 pages.

Drg. 1 sheet.

Class : 206-A.

155813.

Int. Cl. : H 01 q 21/00.

U.H.F. CYLINDRICAL PARABOLOID ANTENNA SYSTEM.

Applicant & Inventor THIRUVENKATA KRISHNAN, 234, AVVAI SHANMUGAM ROAD, MADRAS-600 086, TAMIL NADU.

Application No. 5/Mas/82 filed January 11, 1982.

Appropriate Office for Opposition Proceedings, (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

15 claims

A U.H.F. cylindrical paraboloid antenna system comprising a cylindrical paraboloid reflector having a ratio of 0.29 with respect to the focal length and the length of the aperture; and a double dipole feed incorporating an inner transmission line provided with a removable section replaceable by other sections of the same length, but of different diameters, each such section being of length substantially equal to a quarter wave length to serve as a quarter-wave transformer.

Com. 18 pages; Drwgs. 7 sheets.

CLASS : 86-B.

155814.

Int. Cl. A 47 c 17/04.

A SOFA CONVERTIBLE INTO A BED

Applicants & Inventors : (1) CHIDAMBARAM SUBRAMANIAM PILLAI AND (2) CHIDAMBARAM SUBRAMANIAM SIVANANDAN, C/O. GRAFEX, GRAFEX BUILDING, SAIDAPET, MADRAS-600 015, TAMIL NADU.

Application No. 26/Mas/82 filed February 8, 1982.

Appropriate Office for Opposition Proceedings, (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 claims

A sofa convertible into a bed comprising a sofa provided with one or more removable cushions characterised by a single collapsible frame made up of a plurality of linked or pivoted sections, the frame having a flexible matters fixed integrally thereto together with a plurality of collapsible linked or pivoted struts, the said frame and mattress being normally disposed in a compactly folded state under the cushions to constitute the seat of the sofa, the said frame and mattress, with the cushions removed, being however unfoldable outwardly from the sofa to expose the mattress, the said struts being also simultaneously unfoldable to support the frame on the ground to constitute a bed.

Compl. 7 pages.

Drgs. 1 sheet.

CLASS : 56-G.

155815.

Int. Cl. C 02 b 1/04.

A DOUBLE DISTILLER.

Applicant & Inventor : HAMPAPUR NARASIMHA RAVI, BHANU SCIENTIFIC INSTRUMENTS COMPANY, C-251, VTH CROSS, INDUSTRIAL ESTATE, PEENYA, BANGALORE-560 058, KARNATAKA.

Application No. 84/Mas/82 filed May 1, 1982.

Complete specification left: March 21, 1983.

Appropriate Office for Opposition Proceedings, (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

16 claims

A double distiller comprising a first and second distillation vessel, both having built-in heating means, the second distillation vessel being disposed overhead said first distillation vessel, the vapour from said first distillation vessel being adapted to be discharged through a communicating vent disposed coaxially inside said second distillation vessel to a condensing unit being disposed coaxially on top of said second distillation vessel and comprising an elongated column whose inner and outer walls are separated by a hollow space where-through a coolant is adapted to be circulated continuously, the condensate from the first stage being adapted to flow down along the said inner wall of the condensing unit for deposition into the second distillation vessel, the vapour from the second distillation vessel being adapted to condense on the outer wall of the said condensing unit and the resultant distillate is collected through an outlet provided with an outer jacket disposed around the outer wall of said condensing unit.

(Prov. 4 pages; Com. 11 pages; Drg. 1 sheet).

CLASS : 24-F; 150-1.

155816.

Int. Cl. B 60 t 13/00; B 61 h 11/00.

BRAKE RELEASE ACCELERATING DEVICE IN AUTOMATIC GRADUAL-DISCHARGE FLUID BRAKE.

Applicant : WARCO WESTINGHOUSE SpA., OF VIA PIER CARLO BOGGIO 20, TURIN, ITALY.

Inventor : 1. CESARE PRADA.

Application No. 2434/Cal/75 filed December 31, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 claims

Automatic fluid brake apparatus of the type in which the refill and discharge of a brake cylinder into the atmosphere are controlled by a device functioning as a distributing valve relative to pressure variations in the main line, said apparatus being of the automatic adjustable, inexhaustible gradual-discharge type with control chamber equipped with a differential-action movable arrangement that controls the supply of the brake cylinder by an auxiliary reservoir, and the discharge of the brake cylinder into the atmosphere, said movable arrangement being controlled by a difference between the constant-pressure control reservoir and the pressure of the main line acting together with the pressure of the brake cylinder, the objective of said apparatus being to accelerate the brake release of a train, and characterized by the fact that it includes relay valve means that, at the beginning of the brake release phase, bring the air of the auxiliary reservoir in communication with that of a supplementary reservoir of suitable capacity charged from the main line during the forward motion of the train at the normal pressure.

Compl. specn. 17 pages. Drgs. 3 sheets.

CLASS : 129-G.

155817.

Int. Cl. B 22 f 1/00.

DUSTLESS ALUMINIUM POWDER OF SENSITIZING GRADE AND PROCESS FOR PRODUCING THE SAME.

Applicant : ALUMINIUM COMPANY OF AMERICA, OF ALCOA BUILDING, PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor : 1. THOMAS JOHN KONDIS.

Application No. 79/Cal/76 filed January 12, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 claims

An aluminium powder product containing aluminium particles and minus 60 mesh particles of an adhesive agent such as herein described the aluminium particles having a hydrophobic coating such as resulting from treatment with stearic acid, the aluminium particles being weakly bonded to each other by said adhesive agent particles, the aluminium powder being of sensitizing grade as determined by best X as defined herein and dustless as determined by comparative pour test Y as defined herein.

Compl. specn. 40 pages. Drgs. 5 sheets.

CLASS : 98-G.

155818.

Int. Cl. B 21 d 53/02; F 28 c and F 28 d.

A TUBE HEAT EXCHANGER.

Applicant : VEREINIGTE ALUMINIUM-WERKE AKTIENGESELLSCHAFT, OF SCHLIESSFACH 526, BONN, FEDERAL REPUBLIC OF GERMANY.

Inventors: 1. KLAUS JOACHIM TUSCHE. 2. GEORG LOTTER. 3. HUBERT KREUTZ. 4. WALTER HABER-SACK. 5. GOTTFRIED WEINHÖLD
3-487GI/84

Application No. 447/Cal/76 filed March 12, 1976.

Convention dated 24th February, 1976 (7316/76) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims

A tube heat exchanger comprising a substantially U-shaped heat exchanger tube adapted to contain a first medium, and one or more tubes intended to contain a second medium which is to be brought into heat exchange with the first medium, the tube (s) passing through the U-shaped heat exchanger tube and being so connected outside the U shaped heat exchanger tube as to form for the second medium a continuous passage passing repeatedly through the U-shaped heat exchanger tube as a number of loops which, or parts of which may cross inside or outside the U-shaped heat exchanger tube.

Compl. specn. 10 pages. Drgs. 5 sheets.

CLAIM UNDER SECTION 20(1)

In pursuance of leave granted under section 20(1) of the Patents Act, 1970, the application No. 155777 (34/Del/80) is allowed to proceed in the name of Indian Institute of Technology, Delhi.

OPPOSITION PROCEEDINGS

The grant of a patent on application No. 150113 made by Mal Chand Saraogi on which an opposition has been entered by Biren Das Gupta, the filing of which was notified in the Gazette of India, Part III, Section-2 dated 8th January, 1983 has been refused.

(2)

The opposition entered by National Research Development Corporation of India, to the grant of a patent on application for Patent No. 153129 made by Oronzio De Impianti Electrochimici, a s.p.a. which was notified in the Gazette of India, Part-III, Section 2 dated the 22nd December, 1984 has been treated as dismissed and a patent has been ordered to be sealed on the application.

PATENTS SEALED

149442 152778 152779 152780 152831 152832 152879 152882
152895 152900 152907 152914 152915 152946 152956 152958
152959 152963 152966 152969 152970 152974 152975 152976

AMENDMENT PROCEEDINGS UNDER

SECTION 57(6)

In the course of proceedings in opposition to the grant of a patent in respect of the application for patent No. 141987, the acceptance of the complete specification of which was notified in the Gazette of India, Part-III, Section 2 dated the 14th May, 1977, the descriptions in the Provisional and complete specifications and the statement of claims in the complete specification have been amended.

COMMERCIAL WORKING OF THE PATENTED INVENTION

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970, in respect of calendar year 1983, generally on account of want of requests for licences to work the patented inventions. Persons who are interested to work the purpose.

Sr. No.	Patent No.	Date of Patent	Name & Address of the Patentees	Title of the Invention.
1	2	3	4	5
1.	139616	6-7-1973	SIMON CARVES LTD. of Cheadle Heath Stockport, Cheshire, England.	Improved method and apparatus for the manufacture of sulphuric acid.
2.	139617	19-7-1973	IMPERIAL CHEMICAL INDUSTRIES LTD of Imperial Chemical House, Mill bank, London S. W. 1 England.	Process for the manufacture of phosphoric acid amides.
3.	139619	19-1-1974	THE GOODYEAR TIRE AND RUBBER CO. of 1144 East Market Street, Akron Ohio, U.S.A.	A process for coagulating synthetic latices.
4.	139623	26-6-1974	RCA CORPORATION of 30 Rockefeller Plaza, New York 10020 U.S.A.	Method of etching silicon oxide to produce a tapered edge thereon.
5.	139658	18-1-1973	IMPERIAL CHEMICAL INDUSTRIES LTD of Imperial Chemical House, Mill bank, London S. W. 1. England.	Method of making catalyst precursor for the synthesis of methanol.
6.	139721	9-1-1973	HOECHST AKTIENGESellschaft of 6230, Frankfurt Main, F.R.G.	Process for preparing water soluble reactive dyestuffs.
7.	139722	28-2-1973	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for producing aluminium chlorohydroxides.
8.	139729	6-9-1973	IMPERIAL CHEMICAL INDUSTRIES LTD of Imperial Chemical House, Mill bank, London, S. W. 1 England.	Explosive fuse cord and method of manufacturing the same.
9.	139785	15-10-1975	UNION CARBIDE INDIA LTD. of 1, Middleton street, Calcutta 700 016, West Bengal, India.	Process for the recovery of hexadienal from S.S.D. oil from crotonaldehyde refining columns.
10.	139804	24-1-1974	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION of Limestone Avenue, Can Campbell Australian Capital territory, Commonwealth of Australia.	A process for beneficiation of titaniferrous ores to produce titanium dioxide.
11.	139810	28-1-1976	UNION CARBIDE INDIA LTD. of 1, Middleton street, Calcutta-700 016, West Bengal, India.	Improvement in or relating to method of manufacture of paratertiary butyl phenol.
12.	139821	2-11-1973	HINDUSTAN LEVER LTD. of Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20, Maharashtra, India.	Detergent bars.
13.	139829	16-3-1974	UNION CARBIDE INDIA LTD. of 1, Middleton Street, Calcutta 700016, West Bengal, India.	A process of removing sulphuric acid colour producing impurities present in acetaldol route 2-ethyl hexanol and refining the product so obtained.
14.	139834	16-11-1973	F. L. SMITH & CO A/S of 77 Vigerslev Alle, Copenhagen-valby, Denmark.	Improvements relating to the calcination of pulverous material and plant for effecting the same.
15.	139841	13-4-1973	UNION CARBIDE CORPORATION of 270 Park Avenue, New York 10017, New York, U.S.A.	Process for extracting metal values from spent hydrode sulfurization catalysts.
16.	139895	19-3-1973	PERSONAL PRODUCTS COMPANY of Mill town, New Jersey, U.S.A.	Method of making water insoluble fluid absorptive and retentive materials from cellulose.
17.	139924	26-6-1973	SNAMPROGETTI S. P. A. 16 Corso Venezia, Milan, Italy.	Water desalination apparatus.

1	2	3		
18.	139931	13-7-1973	MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG of Darmstadt, Frankfurter strasse, 250 West Germany.	Process for preparing lustrous pigments.
19.	139988	26-10-1873	SOCIETE FRANCAISE DELECTRO-METALLURGIE SOFREM of 10 Rue du, General Foy Paris 8 Eme, France.	Improved process for thermal production of magnesium.

CHEMICAL ENGG. LIST—IV

COMMERCIAL WORKING OF THE PATENTED INVENTION

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calendar year 1983, generally on account of want of requests for licences to work the Patented Inventions. Persons who are interested to work the purpose.

S. No.	Patent No.	Date of Patent	Name & Address of the Patentees	Title of the Invention
1	2	3	4	5
1.	136810	16-6-1972	JOHNSON & JOHNSON, 501, George street, New Brunswick, New Jersey, U.S.A.	A process for preparing pressure sensitive adhesive composition.
2.	136811	16-6-1973	Do.	Process for preparing acrylate adhesive composition.
3.	136819	21-10-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for effecting direct oxidating of ethylene with molecular oxygen to ethylene oxide.
4.	136833	2-11-1972	HOECHST AKTIENGESellschaft, of 6230 Frankfurt/Main 80, Federal Republic of Germany.	Process for preparation of sulfuric acid ester of 1. amino-benzene-4 (B-Hydroxy ethyl-sulfony) 2. Sulfonic acid.
5.	136843	26-4-1972	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ V. V. of carel Van, Bylandtlaan 30, The Hague, The Netherlands.	A process for recovery of ethylene oxide.
6.	136863	24-5-1972	NORTON COMPANY OF 1 NEW BOND STREET WORCESTER, State of Massachusetts U.S.A.	A method of making alumina-Zirconia abrasive materials.
7.	136864	1-6-1972	ETAT FRANCAISE OF 12 Quai Henri IV, Paris.	A method of preparing a propergol.
8.	136878	13-7-1972	GLAVERBEL-MECANIVER OF 166 Chaussee de la Huple Watermael, Boitfort, Belgium.	Process and apparatus for manufacturing sheets glasses.
9.	136927	4-9-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B. V. of carel Van Bylandtlaan 30, The Hague, The Netherlands.	An improved process for preparing oxirane compounds by epoxidizing olefins with hydroperoxides.
10.	136956	18-8-1972	ETAT FRANCAISE OF 12 Quai Henri IV, 75 Paris 4 eme, France.	Ignition powder.
11.	137013	9-3-1973	METALLGESELLSCHAFT AG. of 6 Frankfurt Am Main, Reuterweg 14, West Germany.	Pyrometallurgical process of treating solids.
12.	137015	13-10-1972	JOHNSON & JOHNSON OF 501, George Street, New Brunswick, New Jersey, U.S.A.	A normally tacky and pressure sensitive adhesive tape.
13.	137023	15-12-1972	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20. India.	A process for preparing a supported Nickel catalyst.

1	2	3	4	5
14.	137113	21-8-1972	THE LUBRIZOL CORPORATION OF P. O. BOX. 3057, Euclid Station, Cleveland, Ohio 44117, U.S.A.	A method for the preparation of oil soluble basic barium containing compositions.
15.	137184	4-10-1972	UDDEHOLMS AKTIEBOLAG of Udeholm, Sweden.	Metallurgical process.
16.	137193	13-6-1973	MITSUBISHI KINZOKU KOGYO KABUSHIKI KAISHA, of 5-2, 1-Chome, Ote-Machi, Chiyoda-ku, Tokyo-To, Japan.	Continuous process for refining sulfide ores & an apparatus therefor.
17.	137244	1-2-1973	SHERITT GORDON MINES LIMITED OF 2800, Commerce Court West, Toronto, Ontario, Canada.	Recovery & separation of Nickel & cobalt from reduced laterite Nickel ore.
18.	137275	17-7-1972	HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER HOUSE, 165-166, Backbay Reclamation, Bombay-20, Maharashtra, INDIA.	Skin moisturiser based on glutamic acid and/or glutamine and/or their salts.
19.	137276	1-8-1972	NATIONAL RESEARCH DEVELOPMENT CORPORATION, of 66-74, Victoria street, London S.W. 1, England.	Process for the production glass-fibre-reinforced cementation products.
20.	137364	4-10-1971	THE LUBRIZOL CORPORATION OF P. O. BOX, 3057, Euclid Station, Cleveland, Ohio-44117, U.S.A.	Process for the preparation of an oil soluble composition.
21.	137487	11-12-1972	AIKOH COMPANY LTD, of No. 1-39, 2-chome, Ikenhata, Taitoku, Tokyo, Japan.	Method for manufacturing hot top sleeves.
22.	137507	20-3-1974	HOECHST AKTIENGESELLSCHAFT OF 6230 Frankfurt/Main 80, Federal Republic of Germany.	Process for the dehydroxylation of hardened castor oil.
23.	137575	10-4-1973	Do.	Improvements in or relating to heavy media separation of minerals.
24.	137621	4-1-1973	RHONE-PROGIL, of 67, Boulevard du Chateau, Boite Postale, 122, 92527, Neuilly-sur-Seine, France.	Process of preparing polymers.
25.	137685	1-8-1972	NATIONAL RESEARCH DEVELOPMENT CORPORATION, of Kings gate house, 66-74, Victoria street, London, S.W. 1, England.	Process for the production of glass fibre reinforced cementitious products.
26.	137694	30-5-1972	MITSUBISHI KINZOKU KOGYO KABUSHIKI KAISHA of 5-2, Chome, Ote-Chiyoda-ku, Tokyo-To, Japan.	Method for producing titanium ore concentrate.
27.	137738	18-8-1972	HINDUSTAN LEVER LIMITED of 165-166, Backbay Reclamation, Bombay-20, Maharashtra, India.	A process for the preparation of cycloaliphatic monoterpene alcohol.
28.	137764	3-11-1972	PHILIP MORRIS INC. of 100 Park Avenue, New York, N.Y. 10017, U.S.A.	Conversion of asphaltene containing charge stocks.
29.	137774	21-10-1972	HOWSON-ALGRAPHY LTD. of Vickers House, Mill Bank Tower, Mill Bank, London SW1P 4RA England.	Method for the preparation of sensitive polymeric esters
30.	137818	4-11-1972	UNIVERSAL OIL PRODUCTS COMPANY of Ten UOP Plaza Algonquin & Mt. Prospect Roads, Des Plaines, Illinois U.S.A.	Conversion of asphaltene containing charge stock,
31.	137837	5-10-1973	METALLGESELLSCHAFT AKTIENGESELLSCHAFT of 16 Frankfurt A.M. Reuterweg, West Germany.	Process of converting hydrogen sulphide into elementary sulphur by the claus process.
32.	137894	24-11-1972	METALLURGICAL PROCESS LTD. of Austral house, Basinghall Avenue E.C. 2; in the city of London, England.	A method of producing zinc vapour of cadmium vapour.

1	2	3	4	5
33.	137913	11-7-1973	SOCIETE NATIONALE DES' POU- RES ET EXPLOSIES OF 12,, Quai Henri IV, Cedex 04, 75181 Paris, France.	A process for the recovery of nitrocel- lulose from the filtrate obtained after the nitration of cellulose and an ap- paratus therefor.
34.	137976	14-10-1971	MEAD CORPORATION OF TAL- BOTT TOWER Dayton, Ohio 45402 U.S.A.	A method for preparing wet proofed catalyst composition for use in conduct- ing a chemical reaction between reac- tants contained in two or more fluid phases.
35.	138025	22-1-1974	IMPERIAL CHEMICML COMPANY LTD, Of Imperial chemical House, Mill Bank London, S.W. 1 England.	Explosive fuse cord.
36.	138028	5-11-1973	CARBORUNDUM UNIVERSAL LTD OF 11/12 North Beach Road, Madras-1, India.	Improvements in or [relating to abrasive articles and method of making the same.
37.	138036	13-8-1973	BETHLEHEM STEEL CORPORA- TION OF 701 East Third Street, Bethlehem Pennsylvania, U.S.A.	Method of treating ferrous strand by hot dip coating procedure.
38.	138128	16-10-1973	HINDUSTAN LEVER LTD. OF Hindustan Lever House, 165-166 Back- bay Reclamation, Bombay-20, Maha- rashtra, India.	Process for preparing super fatted soap bars.
39.	138167	1-12-1972	UNIVERSAL OIL PRODUCTS INC. Of Ten UOP Plaza Allgoquin & mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	A method for reforming of hydrocarbons.
40.	138202	25-1-1973	UNION CARBIDE CANADA LTD OF Eglinton Ave East. Toronto, Ontario, Canada.	Process for producing a fibre forming polyamide.
41.	138238	16-12-1972	SOCIETE NATIONALE DES POU- RES ET EXPLOSIFS OF 12 Quai Henri IV, Cedex 04 75181, Paris, France.	A propellant powder composition and black propellant fuel moulded from such composition.
42.	138239	10-1-1973	SHIN NIHON KAGAKU KOGY KABUSHIKI KAISHA OF 1 25-1, Hama-dori, Dojima, Kita-ku, Osaka- shi, Osaka-fu, Japan.	Method of producing magnesia refrac- tory grains.
43.	138391	23-11-1972	STEETLEY (MFG) LTD. OF Gate Ford Mill Workshop, Nottioghamshire. England.	Process for making magnesia.
44.	138449	9-1-1973	UNILEVER LTD. of Unilever House, Black friars, London E. C. 4. England.	A proces for the preparation of black tea from green or unfermented tea.
45.	138559	2-11-1972	HOECHST AKTIENGESSELLCHAFT OF 45 Bruning Strasse, Frankfurt/ Main Federal Republic of Germany.	Process for preparing novelmonoazo reactive dyestuffs.
46.	138632	20-12-1972	NORTON COMPANY OF 1 New Bond Street, Worcester, State of Massachusetts U.S.A.	Method of producing abrasive.
47.	138686	25-5-1973	SOLVAY & CIE OF 33 Rue du Prince Albert B-1050, Brussels, Belgium.	Process for the polymerization of olefins
48.	138705	28-9-1973	SHELL INTERNATIONALE RE- SEARCH MAATS CHAPPIJ B. V. Of Carol Van Bylandtlaan 30, The Hague, The Netherlands.	Process & apparatus for producing gas by partial combustion and carburetting said gas.
49.	138853	30-4-1974	SADAYOSHI WATANABE OF 1247- 25, Miyanomori, Chiro-ku, Sapporo- shi, Hokkaido, Japan.	Process for producing paper making pulp from grasses.

1	2	3	4	5
50.	138862	12-12-1972	HOECHST AKTIENGESELLSCHAFT OF 6230, Frankfurt/Main 80, F.R.G.	Process for the preparation of new Water soluble reactive azo dyestuffs.
51.	138883	12-12-1972	Do.	Process for preparing novel water soluble reactive azodyestuffs.
52.	138884	12-12-1972	Do.	Process for the preparation of new water soluble reactive dyestuffs.
53.	138885	12-12-1972	Do.	Process for the preparation of novel water soluble reactive azo dyestuffs.
54.	138889	1-5-1973	Do.	Process for preparing water soluble azo compounds.
55.	138894	27-6-1973	SANDVIK AKTIEBOLAG OF FACK S-81101 Sandriken 1, Sweden.	Coated hard metal body.
56.	138928	15-4-1974	HINDUSTAN LEVER LTD. of Hindustan Lever House 165-166 Backbay Reclamation Bombay-20, Maharashtra, India.	Cosmetic skin moisturising composition.
57.	139109	8-5-1973	DR. C. OTTO & COMP. G.m.b.H. of Christrasse 9 Postfach 1849/1850, 463 Bochum, W. Germany.	A gas collecting device for a coke oven battery.
58.	139118	27-1-1973	LONE STAR STEEL COMPANY OF 2209 W. Mockingbird Lane at Roper Dallas, Texas, U.S.A.	Process for the removal of particulate matter and acidic gases from carrier gases.
59.	139182	21-11-1973	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for removing vinyl aromatic hydrocarbons.
60.	139206	6-8-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. OF Carel van Bylandtlaan 30, The Hague, The Netherlands.	Process for the production of hydrogen rich gas from carbon monoxide and hydrogen containing gases.
61.	139208	19-4-1974	SNAMPROGETTI S.P.A. of 16, Corso Venezia, Milan, Italy.	Purification of a solution of urea.
62.	139216	28-2-1973	Do.	Process for producing aluminium chloro-hydroxides.
63.	139231	25-5-1973	UNION CARBIDE INDIA LTD. of 1, Middleton Street, Calcutta 16, West Bengal, India.	Improvements in or relating to process for the manufacture of sorbic acid and its alkalimetal salts.
64.	139273	3-3-1972	SOLVAY & CIE COMPANY OF Rue de Prince Albert 33, B-1050 Brussels, Belgium.	Process for the stereospecific polymerization of alpha-olefins.
65.	139293	13-2-1974	INDIAN EXPLOSIVES LTD. I.C.I. House 34, Chowringhee Road, Calcutta-16, West Bengal, India.	Sensitised dry blasting composition and their method of preparation.
66.	139321	19-7-1973	HOECHST AKTIENGESELLSCHAFT OF 6230 Frankfurt/Main F.R.G.	Process for the preparation of novel water soluble mono az dyestuffs.
67.	139383	26-6-1973	UNILEVER LTD. OF Unilever House, Blackfriars London E.C. 4, England.	A process for the preparation of composite tea product.
68.	139403	12-7-1974	SNAMPROGETTI S.P.A. OF 16 Corso, Venezia, Milan, Italy.	Process for separation diolefins from mixture containing the same.
69.	139432	19-11-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. OF Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A process for the preparation of ethylene oxide.
70.	139455	25-5-1973	UNIVERSAL OIL PRODUCTS COMPANY OF Ten UOP Plaza Algonquin & Mt Prospect Roads, Des Plaines, Illinois, U.S.A.	Fluidized catalysts regeneration process.
71.	139458	16-6-1973	CESKOSLOVENSKA AKADEMIE VED of No. 3. Narodni Prague 1, Czechoslovakia.	Process for producing powdery hydrophilic filters.

1	2	3	4	5
72.	139520	28-6-1973	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH OF Rafi Marg, New Delhi-1, India.	Improvements in or relating to the process for removal of iron from ferruginous managanese ores.
73.	139571	21-9-1973	BETHELEHEM STEEL CORPORATION OF 701 EAST Third Street Bethlehem, Pennsylvaniana, U.S.A.	Corrosion resistant aluminium zinc coating and method of making.
74.	139601	27-3-1974	CONTINENTAL CARBON COMPANY OF 4120 South West Freeway, Houston Texas 770271, U.S.A.	Method and apparatus for the manufacture of carbon block.
75.	139465	20-3-1974	SNAMPROGETTI S.P.A. of 16, Corso, Venezia, Milan, Italy.	Process for the production of cellulose bodies and cellulose filaments incorporating enzymes.

MECH & GEN. ENGG. LIST V

COMMERCIAL WORKING OF PATENTED INVENTION

The following patents in the field of Mechanical & General Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calender year 1983, generally on account of want of requests for licences to work the patented inventions. persons who are interested to work the said patents commercially may contact the patentees for the grant of licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name & Address of the patentees	Title of the Invention
1	2	3	4	5
1.	139287	21-9-1973	VERNON & CO. (PULP PRODUCTS) LTD. of Slater street, Bolton, Lancashire, England.	Improved disposable bedpan inserts.
2.	139350	2-3-1974	MESSIER HISPANO S. A. of 15 Avenue, Eylan 75116, Paris, France.	Landing gear (under carriage) and fuselage set with wheels drawn.
3.	139356	17-9-1973	JOHNSON & JOHNSON of 501 George street, New Brunswick, New Jersey.	Extrusion process for pressure sensitive adhesive sheets and tapes.
4.	139363	28-2-1974	RCA CORPORATION of 30, Rockefeller, Plaza, New York, New York 10020, U.S.A.	Optical system.
5.	139370	9-8-1973	E.I. DU PONT DE MEMOURS & CO of Wilmington, Delaware, U.S.A.	Improvements in or relating to compartmented package and process for forming such package.
6.	139374	26-6-1974	GIRLING LTD. of Kings Road, Tyseley, Birmingham 11, England.	A control valve assembly for a vehicle and dual circuit braking system.
7.	139389	20-3-1974	GENERAL ELECTRIC COMPANY of 1, River Road, Schenectady, New York, U.S.A.	A composite wire drawing die.
8.	139490	28-2-1973	C. A. NORGEN CO. 5400 South delaware street, Littleton Colorado 80120, U.S.A.	Coupling unit for fluid control components and an assembly of a fluid control components.
9.	139476	31-8-1973	DEERE & CO Moline, Illinois, U.S.A.	Crop harvesting machine.
10.	139486	3-4-1973	DRESSER INVESTMENTS N. V. Willemsted, Curacao, Antilles, The Netherlands.	Variable venturi apparatus for mixing and modulating liquid fuel and intake air for internal combustion engine.
11.	139488	17-4-1973	GIRLING LTD. Kings Road, Tyseley, Birmingham 11, England.	Improvements in and relating to servo-boosters for vehicle brake system.
12.	139498	26-6-1974	SIMON GRAVES LTD. CHEADLE HEALTH STOCKPORTSHIRE, England.	A device for facilitating the discharge of solid particulate material from hopper.

	2	3	4	5
13	139515	18-5-1974	SOCIETE D' ETUDES DE MACHINES THERMIQUES 2, Quai de Seine 93202 Saint Denis, France.	A device for cleaning an exhaust gas driven power turbine of a superheating set of a heat engine.
14.	139539	10-8-1973	OLE DENDT RASMUSSEN 14, Anemonevej, Gentofte, Denmark and Beghin Say ol 59239 Thumeries, France.	Net and method of producing same.
15.	139548	5-10-1974	PALITEX PROJECT CO. Weeserweg 8, 415, Krefeld, West Germany.	Antiballooning device for twisting machines.
16.	139602	4-6-1974	USS ENGINEERING & CONSULTANTS INC. 600 Grant street, Pittsburgh State of Pennsylvania, U.S.A.	Apparatus for introducing gas to hot metal in a bottom pour vessel.
17.	139641	8-1-1974	G.D. SOCIETA PER AZIONI Via Pomponia 10, Bologna, Italy.	High speed intermittent cycle machine for wrapping pieces of soap and other similar products.
18.	139654	19-12-1974	MIDREX CORPORATION of one NCNB Plaza, Charlotte North Carolina 28280, U.S.A.	Apparatus for cooling a moving bed of solid, gas permeable particles.
19.	139676	22-4-1974	COMBUSTION ENGINEERING INC. 1000 Prospect Hill Road Windsor, Connecticut, U.S.A.	Means for adjusting the compression of a spring blasting means.
20.	139681	11-4-1973	SOCIETE NATIONALE DES POUURES ET EXPLOSIFS 12, Quai Henri IV, Cedex 04, 75181 Paris, France	Milling machine for the machining of parts of a large dimensions in particularly of the blocks of solid propellants.
21	139682	Do.	Do.	Process and device for machining of the internal duct of a block of solid propellant.
22.	139758	5-10-1974	F. L. SMIDTH & CO A/S Dk-2500 Copenhagen Valby 77 Vigsgade, Denmark.	Tube mill.
23.	139799	19-7-1973	Etablissement SALGAD Vaduz Liechtenstein.	Light mortar for fin stabilised projectiles.
24.	139805	4-3-1974	OUTOKUMPU OY Outokumpu, Finland.	An intra-uterine contraceptive device.
25.	139812	5-12-1973	GIRLING LTD. Kings Road, Tyseley, Birmingham 11, England.	Improvements in transmission members and hydraulic actuators incorporating said transmission members.
26.	139860	4-4-1973	WESTINGHOUSE ELECTRIC CORPORATION Pittsburgh Pennsylvania, U.S.A.	Improve system for turbine speed controlling valve operation.
27.	139874	14-8-1973	BURROUGHS CORPORATION Burroughs place, Detroit, Michigan 48232 U.S.A.	A predeterminedly configured roller for use in document reading and sorting apparatus using roller.
28.	139906	15-12-1973	THE WARNER & SWASEY CO. University Circle Research Center 11000 Cedar Avenue, Cleveland Ohio 44106, U.S.A.	A machine tool.
29.	139916	21-10-1973	IMS LTD. of 1886 Santa Anita Avenue South El Monte, California 91733, U.S.A.	A fluid transfer device.
30.	139945	24-8-1973	CRAWFORD BROWN MURTON of Pittsburgh, Pennsylvania 15221, U.S.A.	A method of applying a refractory lining to a metallurgical vessel and metallurgical vessel so produced and composition used in the same.
31.	139955	18-10-1973	BICC (BRITISH INSULATED CABLES LTD. 21 Bloomsbury street, London WC 3 QN, England.	Wire drawing machinery.
32.	139982	29-10-1974	HERCULES INCORPORATED 910 Market street, City of Wilmington state of Delaware, U.S.A.	Thermal detonation energy initiatable blasting caps and detonation system.

RENEWAL FEES PAID

125128 125299 125349 125448 127786 133969 134491 134622
 134635 134662 134679 134864 135293 135380 135512 136463
 136677 136712 137931 138065 138802 138926 139361 139544
 139629 139630 139737 139753 139860 140040 140940 140951
 141338 141482 141960 142067 142882 143499 143603 143644
 143645 143646 144112 144169 144377 144386 144739 144745
 144941 145033 145361 145501 145529 145679 145808 145816
 145941 145943 146014 146216 146274 146564 146968 146969
 147192 147459 147814 147999 148055 148398 148511 149073
 149332 149443 149544 149720 149740 149773 150440 150631
 150639 151009 151125 151753 152024 152169 152201 152212
 152226 152228 152232 152366 152369 152379 152438 152452
 152459 152595 152654 152658 152703 152771 152783 152786
 152799

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 155103. United States Surgical Corporation, a Corporation of the State of New York, having its office at 150, Glover Avenue, Norwalk, Connecticut 06850, U.S.A., "Apparatus For Applying Surgical Clips". 27th November, 1984.

Class. 1. No. 154856. Vinodrai Vandravandas Barchha, an Indian of Flat No. 9B, (9th floor) "NEEL KAMAL", 41, Elgin Road, Calcutta-799 020, West Bengal, India. "Handle-1". 21st September, 1984.

Class 1. No. 154941. Metro Enterprises, a partnership firm, at 16, Guru Amar Dass Colony, Outside Chatiwind Gate, Amritsar-143006 (Punjab State) (India). "the Base-Stand (of the Electric-Fan)". 11th October, 1984.

Class 1. No. 154931. Harshad Ratilal Panchal, Indian National of 43 Bara Chawl, 5, Sun Mill Road, Lower Parel, Bombay-400 013, Maharashtra State, India. "Multi Masonary Expansion Fastener". 8th October, 1984.

Class 1. No. 154938. Chandrakant Madhukar Utture, Indian National, of A-24, Gandharv Nagri, Mothrud, Pune 411029, Maharashtra State, India. "Centring Machine". 10th October, 1984.

Class 3. No. 155085. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate, Talegaon 410 507, District Pune, State of Maharashtra, India. "Tea Making Vessel". 23rd November, 1984.

Class 3. No. 155081. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate, Talegaon 410 507, District Pune, State of Maharashtra, India. "Vacuum Flask". 23rd November, 1984.

Class 3. No. 155104. United States Surgical Corporation, a Corporation of the State of New York, having its office at 150, Glover Avenue, Norwalk, Connecticut 06850, U.S.A., "Apparatus For Applying Surgical Clips". 27th November, 1984.

Class 3. No. 155236. Amar Plastic, 4, Vijay Bhuvan, School Road, Malad West, Bombay 400064, Maharashtra, an Indian Partnership Firm. "Coaster Set". 2nd January, 1985.

Class 3. No. 155243. Molton Plastics, a registered Indian Partnership Firm, registered under Indian Partnership Act, 1932, having Office at 202/203, Raheja Centre, 214, Nariman Point, Bombay 400 021, Maharashtra, India, "a Bucket". 2nd January, 1985.

Class 3. No. 154795. The Tata Oil Company Limited, Bombay House, 24, Homi Modý Street, Fort, Bombay-400 023, Maharashtra, India, a company registered under the Indian Companies Act, 1913. "Soap container or Soap case". 5th September, 1984.

Class 3. No. 154857. Vinodrai Vandravandas Barchha, an Indian of Flat No. 9B, (9th floor) "NEEL KAMAL", 41, Elgin Road, Calcutta-700 020, West Bengal, India. "Handle-2". 21st September, 1984.

Class 3. No. 155234. Pravinkumar Padamchand Jain 'Jin Kuti' Parwarpura Itwari, Nagpur 440 002. India. "Bottle". 2nd January, 1985.

Class 3. No. 154819. Narendra Kumar Jain, Indian National of 82-B, Meher Apartments Anstey Road, Bombay-400 026, Maharashtra State, India. "Platter". 13th September, 1984.

Class 3. No. 155079. Universal Luggage Manufacturing Company Private Limited, an existing Company under the Indian Companies Act, at Building B, Shah Industrial Estate, Saki-Bihar Road, Bombay-400 072, Maharashtra State, India. "Suitable". 22nd November, 1984.

Class 3. No. 154768. Rails Engineering Works, 21, Balaji Industrial Estate, Hanuman Nagar, Akurli Village, Kandivali (East), Bombay-400 101, State of Maharashtra, India, an Indian Partnership Firm. "Paper Shredding Machine". 31st August, 1984.

Class 3. No. 155142. Dag Rostman, a Sweden citizen, of Vasa Kyrkogata 1, S-411 27 Goteborg, Sweden. "a Tool intended for tooth Picking". 6th December, 1984.

Class 8. Nos. 155249, 155252, 155253, 155254, 155255, 155256, 155260, 155261, 155262, 155266, 155267, 155271. Cosmique Trading Co., of 191, Main Faiz Road, New Delhi. "Woollen Durries". 8th January, 1985.

Class 12. No. 155205. American Home Products Corporation, a corporation organised and existing under the laws of the State of Delaware of 685 Third Avenue, New York, New York 10017, U.S.A. "Pharmaceutical Tablet". Reciprocity date is 11th July, 1984, (U.K.).

Extn. of Copyright for the Second period of five years.
Nos. 149147, 149148, 149149, 149150,
149151, 154686, 154687, 154688Class 1.
Nos. 147499, 154169. Class 3.

Extn. of Copyright for the Third period of five years.

Nos. 149152, 154686, 154687, 154688.Class 1.
Nos. 147499, 154169. Class 3.

R. A. ACHARYA
Controller General of Patents, Designs
and Trade Marks.